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E-Copies of Project Certificates

NRI INSTITUTE OF TECHNOLOGY

Pothavarappadu(v), Agiripalli(M), Vijayawada Rural-521 212

A Project Report on
"PLANNING & MODELLING OF INDIVIDUAL HOUSE
BY USING AUTOCAD & REVIT ARCHITECTURE"

Project work submitted in partial fulfilment of the Requirement for the
award of the degree of
Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

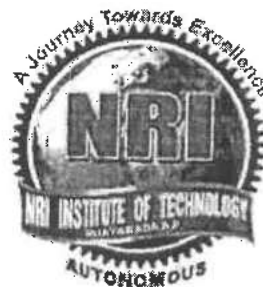
SUBMITTED BY

A. LAVANYA	19KN1A0103
CH. PAVAN KUMAR	19KN1A0108
K. THABITHA	20KN5A0119
K. INDRA SEKHAR	19KN1A0114
B.S.V. MANOJ KUMAR	19KN1A0104
J. ANAND BABU	20KN5A0115

Under the Esteemed guidance of

P. NARENDA BABU

Associate Professor
Civil Engineering Department



Department of Civil Engineering

NRI INSTITUTE OF TECHNOLOGY

An Autonomous Institution Permanently Affiliated to JNTU KAKINADA

(Accredited by NAAC with "A" Grade and ISO 9001:2005 Certified Institute)

POTHAVARAPPADU (V), (via) Nunna, Agiripalli (M), Krishna District, A.P., PIN: 521 212

Ph: 08656-324999

Website: nrigroupofcolleges.com

e-mail: nrigroupofcolleges@gmail.com

2019-2023

A Project Report on
"BUILDING INFORMATION MODELLING OF G+5
BUILDING USING AUTOCAD & SKETCHUP"

Project work submitted in partial fulfilment of the Requirement for the award
of the degree of

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

SUBMITTED BY

Y. RAJIV	20KN5A0147
N. VARUN KUMAR	20KN5A0126
V.HARSHA VARDHAN	20KN5A0143
SK. AFRIN BANO	20KN5A0134
M.GOPINADH	19KN1A0118
N. SUSHMA	19KN1A0121

Under the esteemed guidance of

Dr. S. CHAKRAVARTHI

Assistant Professor
Civil Engineering Department



Department of Civil Engineering

NRI INSTITUTE OF TECHNOLOGY

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POTHAVARAPPADU (V), (via) Nunna, Agiripalli (M), Krishna District, A.P., PIN: 521 212

Ph: 08636-324999 Website: nrigroupofcolleges.com e-mail: nrigroupofcolleges@gmail.com

A Project Report on
"EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF COARSE
AGGREGATE WITH E-WASTE AND CHARCOAL WITH CEMENT
FOR LOW VOLUME ROADS"

PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE
AWARD OF DEGREE OF

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

SUBMITTED By

B.SUNEETHA	(19KN1A0107)
D.L.V.C.S SIDDHARTHA	(19KN1A0109)
G.VAMSI	(20KN5A0111)
A.ROHITH CHOWDARY	(20KN5A0101)
A.KUMAR CHANDHRA	(20KN5A0103)
A.V.NARAYANA KUMAR	(19KN1A0102)

Under The Esteemed Guidance

Of

K.RAGA SAI

Assistant Professor

Civil Engineering Department.



Department of Civil Engineering

NRI INSTITUTE OF TECHNOLOGY

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(Accredited by NAAC with 'A' Grade and ISO: 9001-2005 Certified Institution) **POTHAVARAPPADU (V),**
Nunna, Agiripalli (M), Krishna district, A.P., PIN: ~~(52)~~ 212 Ph: 08656-
324999

Website:
nrigroupofcolleges.com

e-mail: nrigroupofcolleges@gmail.com

2019-2023

70.A Project Report on

**Planning and Modeling of Commercial
Building by using AutoCAD and Revit.**

Project work submitted in partial fulfilment of the Requirement for the award of
the degree of

Submitted in partial fulfilment of the requirements for the award of

**BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING**

20KN5A0142
20KN5A0124
20KN5A0140
19KN1A0133
20KN5A0132
20KN5A0138
19KN1A0119

SUBMITTED BY
YANKADARU HEMANTH KUMAR
MOHAMAD ABUBAKAR SIDDIQ
TAMMINA SURYA NANDAN
YEDIDA GHANI RAGHAVA
PEYYALA DINESH KUMAR
SUDDHAPALLI NAGAVANI
CHANDOLU MOHAN

Under the Esteemed guidance of

P Srinivas
Assistant Professor
Civil Engineering Department



Department of Civil Engineering

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Ph: 08656-324999 Website: nrigroupofcolleges.com e-mail: nrigroupofcolleges@gmail.com

2019-2023

A Project Report

On

**"MANUAL AND SOFTWARE STRUCTURAL DESIGN
COMPARISON OF 2BHK HOUSE USING TEKLA STRUCTURAL
DESIGNER"**

PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE AWARD OF
DEGREE OF

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

UNDER THE ESTEEMED

GUIDENCE OF

Mr. M. KRISHNA KUMAR Assistant prof

SUBMITTED BY

K. NITYA SRI LAKSHMI	[19KN1A0113]
A. CHANDRASEKHAR	[20KN5A0102]
G. THARUN	[20KN5A0112]
M. HARISH	[20KN5A0123]
M. CHINNAMMA	[19KN1A0115]
G. JAYA SHANKAR	[19KN1A0111]



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POTHAVARAPPADU (V), (via)

Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999

A Project Report on
"Experimental study on partial Replacement of cement with Quarry
dust and polypropylene Fiber in previous rigid pavement"

**PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF
THE REQUIREMENT FOR THE AWARD OF DEGREE OF**
Submitted in partial fulfillment of the requirements for the award of
BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING

SUBMITTED By

SHAIK SUBHANI	(20KN5A0135)
S.YASASWINI VARMA	(19KN1A0129)
SHAIK TAJUDDIN	(20KN5A0136)
Y RAJAMOHAN REDDY	(20KN5A0146)
SUKASI ARUNA JYOTHI	(20KN5A0139)
SENDA RAJENDRA KUMAR	(19KN1A0130)

Under The Esteemed Guidance of
K. RAGA SAI
Assistant Professor Civil Engineering Department



Department of Civil Engineering
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Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999

Website: nrigroupofcolleges.com e-mail:
nrigroupofcolleges@gmail.com

2019 – 2023

A Project Report on
**“PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH
RECYCLED MATERIALS IN CEMENT CONCRETE”**

PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE
AWARD OF DEGREE OF

Submitted in partial fulfilment of the requirements for the award of

**BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING**

SUBMITTED By

B.MEGHANA	(20KN5A0104)
B.RAJESH	(20KN5A0105)
J.P.N.VENKATA SAI	(20KN5A0114)
D.MOHAN SESHU	(19KN1A0110)
B.PREM KUMAR	(20KN5A0107)
A.KRANTHI KUMAR	(19KN1A0101)

Under The Esteemed Guidance

of

P.NARENDRA BABU

Associate Professor

Civil Engineering Department



Department of Civil Engineering

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Nunna, Agiripalli (M), Krishna district, A.P., PIN: (521) 212 Ph: 08656-324999

Website:
nrigroupofcolleges.com

e-mail: nrigroupofcolleges@gmail.com

2018 – 2022

A Project Report on
"PARTIAL REPLACEMENT OF CEMENT BRICKS BY USING CONSTRUCTION
DEMOLISHED WASTE"
PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF
THE REQUIREMENT FOR THE AWARD OF DEGREE OF
Submitted in partial fulfillment of the requirements for the award of
BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING

SUBMITTED By

PENUGONDA MOHAN KRISHNA	20KN5A0131
RAMAPHALAM RAJYA LAKSHMI	19KN1A0127
PEDDAMALLANNAGARI MURALI KRISHNA	20KN5A0130
PUSHADAPU SAI NANDEESH	20KN5A0133
NADELLA ELISHA	20KN5A0125
PEDDI JANAKI RAM	19KN1A0125
VELAGALA SAI CHAND	19KN1A0132

Under The Esteemed Guidance of
K. TEJA
Assistant Professor Civil Engineering Department



Department of Civil Engineering
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Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999

Website: nrigroupofcolleges.com e-mail:

nrigroupofcolleges@gmail.com

2019 - 2023

A Project Report

On

“INTERIOR DESIGN OF HOSPITAL BY USING AUTOCAD AND REVIT ARCHITECTURE”

PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE AWARD OF
DEGREE OF

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

UNDER THE ESTEEMED

GUIDENCE OF

Mr. K.TEJA Assistant prof

SUBMITTED BY

- D.BALA KRISHNA [20KN5A0109]
- B.PAVAN KUMAR [20KN5A0106]
- Ch.CHIRANJEEVI [20KN5A0108]
- D.ANIL KUMAR [20KN5A0110]
- J.BALASAI [20KN5A0116]
- B.SRI PALLAV [19KN1A0105]
- B.MURALI KRISHNA [19KN1A0106]



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Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999

A Project Report on
**BUILDING INFORMATION MODELLING (BIM) OF RESIDENTIAL
BUILDING BY AUTOCAD & SKETCH UP**
PROJECT WORK SUBMITTED IN PARTIAL FULLFILMENT OF THE REQUIREMENT FOR THE
AWARD OF DEGREE OF

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING

SUBMITTED By

P.V.YASWANTH REDDY

19KN1A0126

N.P.S .V. SANGAMITHRA

19KN1A0122

P. UDAY KIRAN

20KN5A0129

N. SAI RAM

20KN5A0127

S. HARSHITH TEJA

19KN1A0128

U. SAI GANESH

20KN5A0141

M.V.V.S. NAGA BABU

19KN1A0117

Under The Esteemed Guidance

of

K.TEJA MS (PH.D)

Assistant Professor Civil
Engineering Department



Department of Civil Engineering

NRI INSTITUTUE OF TECHNOLOGY

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(Accredited by NAAC with 'A' Grade and ISO: 9001-2005 Certified Institution) POTHAVARAPPADU (V), (via)

Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999 Website: nrigroupofcolleges.com

e-mail: nrigroupofcolleges@gmail.com

A Project Report on
“APPRAISE OF EDIFICE MATERIALS”

PROJECT WORK SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
AWARD OF DEGREE OF

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

SUBMITTED By

M.CHANDANA SAI	(20KN5A0122)
M.SUPRIYA	(20KN5A0121)
K.PHANI SHANKAR	(20KN5A0117)
K.LAKSHMI SRI	(20KN5A0118)
G. NAVEEN	(20KN5A0113)

Under The Esteemed Guidance

of

M. RAMACHANDRA RAO

Associate Professor Civil
Engineering Department



Department of Civil Engineering

NRI INSTITUTUE OF TECHNOLOGY

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Nunna, Agiripalli (M), Krishna district, A.P., PIN: (52) 212 Ph: 08656-
324999

Website:
nrigroupofcolleges.com

e-mail: nrigroupofcolleges@gmail.com

2018 – 2022

A Project Report on
**“ESTIMATION OF GROUND WATER QUALITY OF EADRA
BY CANADIAN METHOD”**

PROJECT WORK SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE
AWARD OF DEGREE OF

Submitted in partial fulfilment of the requirements for the award of

**BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING**

	SUBMITTED By
NVJ.GANESH	19KN1A0120
M.VINEELA	20KN5A0144
P.GOPI CHAND	20KN5A0128
V.MAHENDRA	20KN5A0145
P.GEETHASWI	19KN1A0124
S.SUBASH	20KN5A0137
S.VENKATARAMANA	19KN1A0123

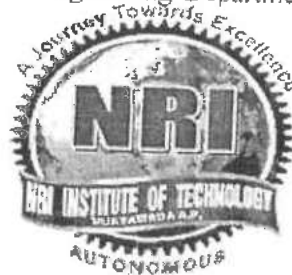
Under The Esteemed Guidance

of

Mr. N.RAMA RAO

Associate Professor

Civil Engineering Department



Department of Civil Engineering

NRI INSTITUTUE OF TECHNOLOGY

An Autonomous Institution Permanently Affiliated to JNTU KAKINADA

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Nunna, Agiripalli (M), Krishna district, A.P., PIN: 521 212 Ph: 08656-324999 Website: nrigroupofcolleges.com
e-mail: nrigroupofcolleges@gmail.com

2019 – 2023

NRI INSTITUTE OF TECHNOLOGY

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Agiripalli, Krishna Dist - 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled "IOT BASED SOLAR STREET LIGHT INTENSITY CONTROL SYSTEM" that is a bonafide record of work done by A. JYOSTHNA [19KN1A0204], J. KRISHNA SAI SREEJA [19KN1A0226], B. TIRUMALAKUMAR [19KN1A0208], M. DURGA SAI KRISHNA [19KN1A0244], B. JAGADEESH RAJU [19KN1A0209] submitted in partial fulfilment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:

A handwritten signature in black ink, appearing to be 'I. Prasanna Kumar'.

Signature of Guide

I. PRASANNA KUMAR B. Tech, M. Tech, (Ph.D)
ASSISTANT PROFESSOR

A handwritten signature in black ink, appearing to be 'Dr. N. Sambasiva Rao', with the date '11/3/2023' written below it.

Signature of HOD

Dr. N. SAMBASIVA RAO B. Tech, M. Tech, Ph.D
Professor & HOD

A handwritten signature in black ink, appearing to be 'External Examiner'.

EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna Dist – 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled “**Smart Water Quality Monitoring System by Using IOT**” that is a bonafide record of work done by **B. Sri Manikanta (20KN5A0201), K.G.S. Sarma (19KN1A0233), A. Santhoshi (19KN1A0202), S. Teja (19KN1A0255), B. Nithish Nayak (19KN1A0210)** submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:

Signature of Guide

K. Venkata Kishore M.Tech
ASSOCIATE PROFESSOR

Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D
Professor & HOD

EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna Dist - 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled “**ENHANCEMENT OF AVAILABLE TRANSFER CAPABILITY IN A DEREGULATED POWER SYSTEM USING SERIES FACTS DEVICE TCSC**” that is a bonafide record of work done by **Y. SAI MADHURI [19KN1A0264], G. VINEELA [19KN1A0221], M. ANUSHA [20KN5A0203], D. TEJASWI REDDY [19KN1A0216], SK. AREEF BASHA [19KN1A0256]** submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:

Signature of Guide

11/3/2023

Signature of HOD

DR. N. SAMBASIVA RAO M.TECH, PhD, MISTE
PROFESSOR & HOD

DR. N. SAMBASIVA RAO M.TECH, PhD, MISTE
PROFESSOR & HOD

EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

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Agiripalli, Krishna Dist – 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled “SOLAR POWERED ELECTRIC BICYCLE” that is a bonafide record of work done by Y. SUCHARITA [19KN1A0263], J. KIRAN BABU [19KN1A0228], JAYA SAI KIRAN.K [19KN1A0227], M. LOKESH [19KN1A0245], N. PALLAVI [19KN1A0246]. submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mrs. S. Ramyaka B. Tech, M. Tech
ASSISTANT PROFESSOR


Signature of HOD

Dr. N. SAMBASIVA RAO B. Tech, M. Tech, Ph.D
Professor & HOD


EXTERNAL EXAMINER

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Agiripalli, Krishna Dist - 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled "Floating Solar Panel with Sun Tracking" that is a bonafide record of work done by **VEERLA ANJALI - 19KN1A0259**
ERIPILLA GOKUL V N SIVA KRISHNA - 19KN1A0219 **MADALA JYOTHI SRI - 19KN1A0240** **GUTTA PRATHYUSHA-19KN1A0224** **DUNGALA JAYASURYA - 19KN1A0218** submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mr. R. Raghunadha Sastry B.Tech, M.Tech (Ph.D)
Associate Professor


11/3/2023

Signature of HOD

Dr. N. Sambasiva Rao B.Tech, M.Tech, Ph.D
Professor & HOD


EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

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Agiripalli, Krishna Dist – 521 212

Department of Electrical & Electronics Engineering



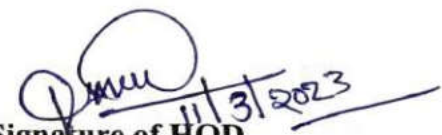
CERTIFICATE

This is to certify that the Project report entitled “**IOT BASED SMART AGRICULTURE MONITORING SYSTEM**” that is a bonafide record of work done by S.DEVI (19KN1A0258), M.PRASAD BABU (19KN1A0243), K.GRESHMA (19KN1A0232), S.HANISH (19KN1A0254), K.VENU BABU (19KN1A0238) submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mrs.S.BHAVANI B.Tech,M.Tech
ASSOCIATE PROFESSOR


Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D
Professor & HOD


EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

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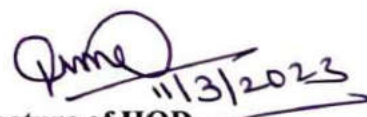
CERTIFICATE

This is to certify that the Project report entitled “SOLAR POWERED ELECTRIC VEHICLE” that is a bonafide record of work done by **M. RAJASEKHAR REDDY (19KN1A0242), P. GANESH (20KN5A0204), Y. VENKATA SAI KUMAR (19KN1A0262), D. CHARAN KUMAR (19KN1A0217), K. PUNDARI KANKSHA (19KN1A0237)**, submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mr. G. DEVANAND B.Tech, M.Tech
Assistant Professor


Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D.
Professor & HOD


EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna Dist - 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled "REMOTE BASED SMART CLASSROOM" that is a bonafide record of work done by CHITTULURI UDAY SANKAR- 19KN1A0215, YANDAVA VINAY KUMAR- 20KN5A0205, PERAMASANI ASHOK KUMAR-19KN1A0249, LANKAPALLI CHANDU- 19KN1A0239, CHALAPAKA SIVA NAGA VARDHAN-19KN1A0212 submitted in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:

S. Bhavani
Signature of Guide 11/3/23

Mrs.S.Bhavani B.Tech, M.Tech
Associate Professor

N. Sambasiva Rao
Signature of HOD 11/3/2023

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D
Professor & HOD

[Handwritten Signature]
EXTERNAL EXAMINER

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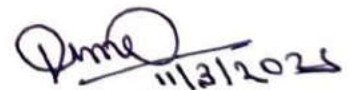
CERTIFICATE

This is to certify that the Project report entitled “AUTONOMOUS GUIDED FARMING ROBOT USING RASPBERRY PI” that is a bonafide record of work done by YERRAMSETTY GANESH (20KN5A0206), BHIMEREDDY BHAVYA REDDY (20KN5A0202), MANNEM PRAVALLIKA (19KN1A0250), GORRUMUTCHU RAMESH (19KN1A0223), KINTHALI VAMSI (19KN1A0234), submitted in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mr. I. PRASANNA KUMAR B.Tech, M.Tech, (Ph.D)
Assistant Professor


Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D
Professor & HOD


EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna Dist – 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled “SOLAR PV CELL FED HYBRID BOOSTING CONVERTER FOR A 3-PHASE AC MOTOR DRIVE APPLICATIONS” that is a bonafide record of work done by **HEPSIBA JALLA**[19KN1A0225], **ADAVI ADITYA** [19KN1A0201], **NAGA NAVEEN REDDY CHILUKURI**[19KN1A0214], **CHANDRA LEKHA KAMBHAMPATI** [19KN1A0230], **RAKESH KONANKI**[19KN1A0236] submitted in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

B.EEDUKONBALU B.Tech, M.Tech, [Ph.D]

Assistant professor


Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D

Professor & HOD


EXTERNAL EXAMINER

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled “GSM Based Prepaid Energy Meter Using Arduino” that is a bonafide record of work done by Vookoti supraja-19KN1A0260, Kambhampati Sri Sai Ram Chand -19KN1A0231, Samarouthu Sasi Nagendra -19KN1A0253, Atti Swamy Chandu -19KN1A0205 Puchhakayala Sai Teja -19KN1A0251 submitted in partial fulfilment of the requirements for the award of degree of **Bachelor of Technology in Electrical and Electronics Engineering** to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide 11/3/23

Mr.R. Raghunadha Sastry B.Tech, M.Tech(Ph.D)
Associate Professor


Signature of HOD 11/3/2023

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D
Professor & HOD


EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution) Agiripalli, Krishna
Dist - 521 212

Department of Electrical & Electronics Engineering



CERTIFICATE

This is to certify that the Project report entitled "ENHANCEMENT OF AVAILABLE TRANSFER CAPABILITY IN A DEREGULATED POWER SYSTEM USING SVC" that is a bonafide record of work done by P.SRAVANTHI [19KN1A0248], B.TARANGINI [19KN1A0211], G.ANITHA[19KN1A0222], R.GUNA SEKHAR [19KN1A0252], B.SANTHOSH [19KN1A0206] submitted in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical and Electronics Engineering to the JNTUK during the academic year 2022-23. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:



Signature of Guide

Dr.N.SAMBASIVA RAO B.tech,MTEch,Ph.D,MISTE

PROFESSOR & HOD



Signature of HOD

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D,MISTE

PROFESSOR & HOD

11/3/2023



EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY
(An ISO 9001:2008 Certified Institution)
Agiripalli, Krishna Dist - 521 212
Department of Electrical & Electronics Engineering



CERTIFICATE

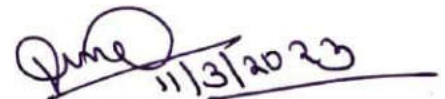
This is to certify that the project report entitled "A NOVEL COMPACT TRI-PORT CONVERTER FED SRM DRIVE WITH FLEXIBLE ENERGY CONTROL FUNCTION USING HYBRID FUZZY LOGIC CONTROLLER" that is a bonafide record of work done by K.SATHEESH-19KN1A0229, G.BRAMARAMBA-19KN1A0220, K.HARISH - 19KN1A0235, CH.B.N SRAVANTHI- 19KN1A0213, S.NARENDRA REDDY- 19KN1A0257 submitted in partial fulfillment of the requirements for the award of degree of Master of Technology in ELECTRICAL & ELECTRONICS ENGINEERING to the JNTUK during the academic year 2022-2023. The results embodied in this technical seminar report have not been submitted to any other University or Institute for the award of any degree or diploma.

Date:


Signature of Guide

Mr.K. VENKATA KISHORE_{B.Tech, M.Tech}

Associate professor


11/3/2023

Signature of HOD

Dr. N.SAMBASIVA RAO_{B.Tech, M.Tech, Ph.D}

Professor


EXTERNAL EXAMINAR



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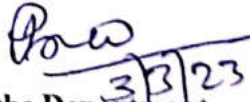
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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

This is to certify that the mini project work entitled "**LINE FOLLOWING ROBOT USING AURDINO SOFTWARE**" is a bonafied work done by **S. ASHOK (21KN5A0374), P. SRAVAN KUMAR (21KN5A0365), L. JAGADEESH (21KN5A0347), P. ARUNDEEP (21KN5A0366), P. BALASUBRAMANYAM (21KN5A0362)** submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in **Mechanical Engineering** to NRI Institute of Technology, Agiripali, affiliated to JNTUK, **KAKINADA** during the academic year 2022-2023.


23/2023
Project Supervisor


3/3/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.



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CERTIFICATE

This is to certify that the mini project work entitled "**ARDUINO BASED SMART VACUUM CLEANER ROBOT**" is a bonafied work done by K. SARATH KUMAR (21KN5A0346), M. PAVAN (21KN5A0355), N. KISHORE KARTHIKEYAN (21KN5A0361), P. SAI VENKATA LOKESH (21KN5A0364), K. SASIDHAR (21KN5A0334) submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in **Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

for

Alhas
Project Supervisor

Porew
2/3/23
Head of the Department
Head, Mechanical Department
NRI Institute of Techno
POTHAVARAPPADU
Agiripalli (Mol), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**GENERATION OF ELECTRIC POWER BY USING ENGINE EXHAUST GASES**" is a bonafide work done by **K.PUNEETH SATYA SAI (21KN5A0338)**, **S.AJITH KUMAR (21KN5A0378)**, **U.CHIRANJEEVI CHIRUKESH VARMA (21KN5A0386)**, **V.NAGA PHANI (21KN5A0391)**, **P. MANOJ (21KN5A0369)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

M. Surendra Kumar
2/3/2022

Project Supervisor

P. Rao
3/3/23

Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**PERFORMANCE ANALYSIS ON 4-STROKE SINGLE CYLINDER DIESEL ENGINE BY USING TURBO CHARGER**" is a completed work done by T.MAHESH(21KN5A0380), P.GANESH(21KN5A0371), SK.AZARUDDIN(21KN5A0375), T.DHARMENDRA CHARI(21KN5A0385), M.TANOJ(21KN5A0353) submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "FABRICATION OF SELF-PROPELLED HYDROELECTRIC POWER GENERATOR" is a bonafied work done by **Md. JAHEERUDDIN (21KN5A0354)**, **P. MANOJ KUMAR (21KN5A0367)**, **U. MANOHAR (21KN5A0387)**, **V. SIMHACHALAM (21KN5A0389)**, **M. JAYA SURYA (21KN5A0356)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna Dist.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that mini project work entitled "**Fabrication of Regenerative Braking system for Automobiles**" is a bonafied work done by **SHAIK.IRFAN(21KN5A0376),K.SURESH KUMAR(21KN5A0345),K.SIVAMANITEJA(21KN5A0336),M.SUBHASH(21KN5A0358) .K.SIVARAMA KRISHNA (21KN5A0337)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
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DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF MULTI PURPOSE SOLAR UMBRELLA**" is a bonafied work done by **K. SUMANTH**, (21KN5A0339), **K. TEJA** (21KN5A0335), **R. KESAVA VARA PRASAD** (21KN5A0373), **T. MANOJ KUMAR** (21KN5A0381), **K. ABHISHEK** (21KN5A0343) submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department

Head, Mechanical Depar.
NRI Institute of Technolog.
POTHAVARAPPADU(VIII)
Agiripalli (Mdl), Krishna Dist.



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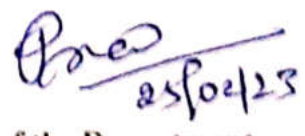


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF MINI ABRASIVE VERTICAL BELT GRINDING MACHINE**" is a bonafied work done by **K. DURGARAO (21KN5A0341)**, **U. PRADEEP RAJ (21KN5A0388)**, **T. RAJA NARASHIMA (21KN5A0384)**, **SK.UMAR SHARIF (21KN5A0377)**, **M. JASWANTH KUMAR (21KN5A0352)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
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AGIRIPALLI (M), Kakinada Dist



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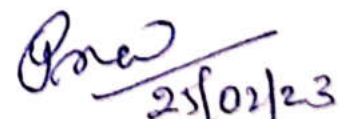
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DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

This is to certify that the mini project work entitled "**Fabrication of Oil skimmer using belt conveyor**" is a bonafied work done by N. Gopala Krishna (21KN5A0360), T. Komal Siva Sai Kumar (21KN5A0382), K. Mohan Sai (21KN5A0340), P. Adinaryana (21KN5A0372), K. Krishna Prasad (21KN5A0342) submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in **Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


25/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU(VIII)
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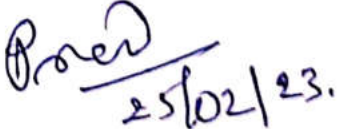


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CERTIFICATE

This is to certify that the mini project work entitled "**FRABRICATION OF AUTOMATIC BRAKING SYSTEM USING ULTRASINIC SENSOR**" is a bonafied work done by **M. JE SRI KRISHNA (21KN5A0351), P.HEMANTH (21KN5A0370), MD.USMAN KHAN (21KN5A0357), K.REVANTH (21KN5A0333), T.PRABHU SRINIVAS (21KN5A0379)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
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Agiripalli (M), Krishna Dist



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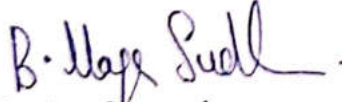
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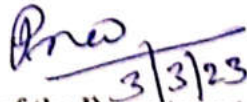


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CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION ON ENERGY HARVESTING USING PIEZO ELECTRIC MATERIALS IN VECHICLE SUSPENSION SYSTEM**" is a bonafied work done by **K.C.V.ANUDEEP(21KN5A0344), P.DURGAPRASAD(21KN5A0368),M.SREEKANTH(21KN5A0348),M.VAMSI(21KN5A0349),T.N.V.SRAVANKUMAR(21KN5A0383)**, submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


3/3/23
Head of the Department
Head, Mechanical Department,
NRI Institute of Technology
POTHAVARAPPADU(VIII)
Agiripalli (Mdl), Krishna Dist.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**POWER GENERATION BY VERTICAL AXIS WIND TURBINE AND SOLAR ENERGY**" is a bonafied work done by **M. CHAITANYA BRAHMA (21KN5A0350), M. SOLOMON RAJU (21KN5A0359), P. PURNA CHANDRA SEKHAR (21KN5A0363), V. DEEPAK (21KN5A0390)**, submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in **Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, **KAKINADA** during the academic year 2022-2023.


Project Supervisor


24/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna



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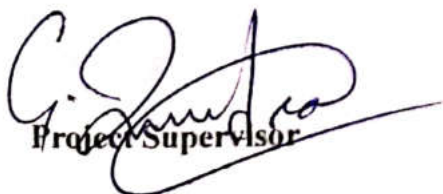
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8333882444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the Mini project work entitled "**POWER GENERATION THROUGH NON-CONVENTIONAL ENERGY SOURCES**" is a bonafied work done **B. SRINIVAS (20KN1A0311), G. TILAK (20KN1A0325), CH. BHANU (20KN1A0317), KIRAN.B (20KN1A0339), CH. BOBY (20KN1A0316)**, submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


7/3/23
Head of the Department



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF CROSS TRAINER WITH BICYCLE**" is a bonafied work done by **B. HEMANTH (20KN1A0308)**, **DEBI PRASAD .J (20KN1A0318)**, **CH. RAMU (20KN1A0315)**, **K. JAGAN MOHAN REDDY (20KN1A0338)**, **B. CHAKRI (20KN1A0307)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

Ct
24/02/2023
Project Supervisor

Pare
24/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**THERMAL ANALYSIS OF CYLINDER BLOCK WITH FINS FOR DIFFERENT MATERIALS USING ANSYS**" is a bonafied work done by **B. EMMANUEL (21KN5A0306), CH. KOTESWARA RAO (21KN5A0315), G. ESWARRAO (20KN1A0326), E. NARENDRA (20KN1A0323), B. MOSEPAUL (21KN5A0312)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

M. Jayaraman
9/3/23

Project Supervisor

Pore
9/3/23

Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.



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URL: www.nrilt.edu.in, email: principal@nrilt.edu.in, Mobile: + 91 8333882444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**POWER GENERATION USING SPEED BREAKER WITH THE HELP RACK AND PINION MECHANISM**" is a bonafied work done by **B.CHENNA KESAVA REDDY (21KN5A0309), C.H.DEVENDRAREDDY(21KN5A0316), B.RAKESH(21KN5A0311), A.VEERRAJU(20KN1A0305), B.VIVEK(21KN5A0302)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology** in **Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

Project supervisor

Head of the Department
and, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist

Handwritten signature of the Head of the Department and date 2/3/23.



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+918333882444



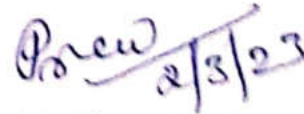
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "COIN COUNTING AND SORTING MACHINE" Is a bonafied work done by G. Venkat Vamsi (20KN1A0328) Naresh (20KN1A0334), D.Mahendra Reddy (20KN1A0321) ,G.Heamenth (20KN1A0324) B .Vamsi (21KN5A0310) submitted in the partial fulfillmen of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Aigiripalli , affiliated to JNTUK,KAKINADA duringtheacademicyear2022-2023.



Project Supervisor



Head of the Department
Head, Mechanical Department
NRI Institute of Technol
POTHAVARAPPADU
KAKINADA



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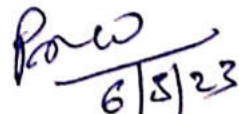


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**EXTRUSION OF 3D PRINTING FILAMENT FROM WASTE PLASTIC**" is a bonafied work done by **G. V. NANDA GOPAL REDDY (20KN1A0327)**, **J. MANIKANTA (20KN1A0333)**, **K. SAKETH (20KN1A0337)**, **A. TEJA (20KN1A0301)**, **CH. HARI KRISHNA (20KN1A0314)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


6/5/23
Head of the Department
Head, Mechanical Dept.
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Kakinada Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF PUSH BOX WITH KINEMATIC LINK MECHANISM**" is a bonafied work done by **J. ESWAR (20KNIA0332)**, **A. ABHISHEK(20KNIA0306)**, **G. TULASIRAM(20KNIA0330)**, **K. UDAYKIRAN(20KNIA0332)**, **A. NAGARAJU(21KN5A0301)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli , affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

P. S. S. S.
25/09/2023
Project Supervisor

P. S. S. S.
2/3/23
Head of the Department
Head, Mechanical Department,
NRI Institute of Technology,
POTHAVARAPPADU (V),
Agiripalli (M), Eluru Dist.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " FABRICATION OF HOT AND COLD WATER DISPENSER BY USING SOLAR ENERGY" is a bonafied work done by **B.THIRUMALESWAR-21KN5A0304,A.NIHARIKA-20KNIA0303,B.B.T.PRAKASH-21KN5A0313,G.VAMSI-20KNIA0331, D. SRI HARSHA-20KNIA0319** submitted in the partial Fullfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


24/04/23.
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**DESIGN AND FABRICATION OF PORTABLE SPOT WELDING MACHINE**" is a bonafied work done by **ADITHYA. K (20KN1A0302), B. DILEEP (20KN1A0310), A. NITHISH (20KN1A0304), K. GANESH (20KN1A0340), G. SAI JAYANTH (20KN1A0329)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

for Obhas
Project Supervisor

[Signature]
6/2/23
Head of the Department

Head, Mechanical Department
NRI Institute of Technology,
POTHAVARAPPADU (VII)
Agiripalli (M&I), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF SOLAR POWERED BIRD SCARER**" is a bonafied work done by **B. CHARAN (21KN5A0303)**, **CH.L.N.S. KONDALARAO (21KN5A0314)**, **B. HARSHAVARDHAN (21KN5A0308)**, **B. CHAITAYANA AKARSH (20KN1A0312)**, **E. DIVYA ABHINAV (20KN1A0322)**, submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF OBSTACLE AVOIDING ROBOT BY USING ULTRASONIC SENSOR**" is a bonafied work done by **K.REVANTH (20KNIA0336)**, **B.BALA SESA SAI GANESH (21KN5A0305)**, **B.BHANU SAI (20KNIA0313)**, **B.GOWTHAM SATYA NARAYANA (21KN5A0307)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, **KAKINADA** during the academic year 2022-2023.


27/2/2023.

Project Supervisor



7/3/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (M), Eluru Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**DESIGN AND FABRICATION OF MULTI DRINK VENDING MACHINE**" is a bonafied work done by **CHINNI. RAVI (21KN5A0318)**, **P. SAI KIRAN(20KN1A0353)**, **V. GANESH KUMAR(20KN1A0374)**, **G.AJAY(21KN5A0330)**, **V. RAGHU VAMSI(20KN1A0375)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


24/02/23.
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Md), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF ENERGY HARVESTING USING PIEZO ELECTRIC MATERIALS IN SLIDER CRANK MECHANISMS**" is a bonafied work done by G.ANIL (21KN5A0326), P.HARSHA TEJA SANTOSH (20KN1A0357), P.TARAKA DHARMA RAO (20KN1A0352), V.SUKUMAR (20KN1A0377), M.SHASHANK(20KN1A0344) submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

Project Supervisor

23/02/23

Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna D.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF SOLAR POWER BANK WITH WIRELESS CHARGING**" is a bonafide work done by **M. NAGA BABU (20KNIA0348)**, **M. MANIKANTA (20KNIA0347)**, **P. AYAPA VENKATA SAI (20KNIA0350)**, **N. SARATH KUMAR (20KNIA0351)**, **R. KOTESWAR CHOWDARY (20KNIA0363)** submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Agiripalli affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


24/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVURAPPADU (V),
Agiripalli (M), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**NUMERICAL HEAT TRANSFER ANALYSIS THROUGH TRIANGULAR FINS**" is a bonafied work done by **P. RAJENDRA (20KNIA0364), K. POORNA DATTA (20KNIA0342), P. MANOHAR(20KNIA0360), R.HARASHITH NAGA PAVAN (20KNIA0366), P. MANIKANTA (20KNIA0355)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department

Head, Mechanical Department
NRI Institute of Technology
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Agiripalli (MCD), Kakinada Dist.



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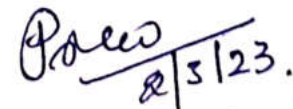


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CERTIFICATE

This is to certify that the mini project work entitled "FABRICATION OF CAM MECHANISM OPERATED HAMMER" is a bonafied work done by J.Raviteja (21KN5A0332), D.Shanmukh (21KN5A0323), P.Jathin Krishna reddy (20KN1A0361), P.Nithish kumar (20KN1A0362), S.Paven kalian reddy (20KN1A0371) work done by submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, agiripalli affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (Mat), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the Mini project work entitled "**MINI CONVEYOR BELT USING GENEVA MECHANISM**" is a bonafied work done by **CH.RAJESH (21KN5A0321), D.MAHESH(21KN5A0322), S.Y.CHANDRASEKHAR(20KN1A0367), E.V.P.GANESH(21KN5A0325), S.AFTSGHAB(20KN1A0369)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

Mini Project Supervisor

Head of the Department
Head, Mechanical Department,
NRI Institute of Technology,
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.



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URL: www.nrit.edu.in, email: principal@nrit.edu.in, Mobile: + 91 8333892444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**FABRICATION OF MULTIPURPOSE FARMING MACHINE**" is a bonafied work done **INKOLLU PRABHU PRAKASH (21KN5A0331), RAVULAPALLI THIRUPATHI SWAMI (20KN1A0365), N.MADHAN MOHAN NAIDU (20KN1A0350), MORAVINENI CHANDRA SEKHAR (20KN1A0349), DOKKA RAM GOPAL (21KN5A0324)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

Project Supervisor

3/3/23

Head of the Department
Head, Mechanical Department
NRI Institute of Technology
Potturampadu, Agiripalli (M)
Eluru District, Andhra Pradesh



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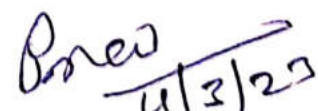
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**DESIGN AND FABRICATION ON FOOT STEP POWER GENERATOR**" is a bonafied work done by **G.SURENDRA (21KN5A0329), Y.SAI RAM (20KN1A0378), M.RENU BABU(20KN1A0346) , M.BHARADWAJ PHANI KUMAR (20KN1A0343),SK.LIYAKATH ALI(20KN1A0370)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA** during the academic year 2022-2023.


04/03/2023
Project Supervisor


4/3/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (M&I), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**DESIGN OF WELDING PARAMETERS OF FRICTION STIR WELDING**" is a bonafied work done by **G.ARAVIND (21KN5A0327)**, **S.JASWANTH KUMAR (20KNIA0368)**, **CH.HEMANTH (20KNIA0380)**, **P.PURNA PRASAD (20KNIA0358)** **K.DIVYA TEJ (20KNIA0341)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

M. S. Jayaram
10/3/23
Project Supervisor

P. Rao
10/3/23
Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU
ELURU (M.D), K.A.P.



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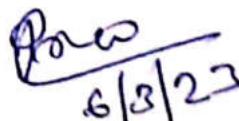


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**POWER GENERATION USING STEAM**" is a bonafied work done by **M. VIJAY KUMAR (20KNIA0345)**, **G. CHINTU BABU (21KN5A0328)**, **P. NAGA VAMSI (20KNIA0356)**, **P. JNANA VENKAT (20KNIA0354)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Agiripalli, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


6/3/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna Dist.



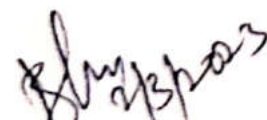
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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 833882444



DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

This is to certify that the mini project work entitled "**DESIGN AND FABRICATION OF MULTIPURPOSE MACHINE**" is a bonafied work done by **U. SAI KRISHNA(20KNIA0373)**, **CH. SATYA PAVAN KUMAR(21KN54A0320)**, **T. VIJAY(20KNIA0372)**, **CH. VENKATA NAGA RAJU (21KN5A0319)**, **V.VAMSI(20KNIA0376)**, submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


3/3/23
Head of the Department
NRI Institute of Technology
Pochavarappadu (V), Agiripalli (M),
Eluru District, Krishna Dist.



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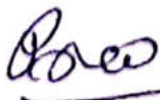
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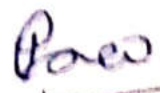


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "SIX SIGMA APPROACH TO INCREASE THE ORIGINAL EQUIPMENT IN HINOLINE " is a bonafied work done by G.HEMA SRIRAM(19KNIA0320), CH.SAMBASIVA REDDY(19KNIA0312), A.KRISHNA KARTHIK (19KNIA0304), SK.MOHAMAD GOUSE JAFFER (19KNIA0349) submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


22/02/23
Project Supervisor


22/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V/II)
Agiripalli (M), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**STRUCTURAL DESIGN AND ANALYSIS OF WIND TURBINE BLADE USING FIBRE-REINFORCED POLYMER COMPOSITES**" is a bonafied work done by **V.S.V. KOUSHIK (19KN1A0353), D. NAVEEN KUMAR (19KN1A0316), Y. SATYA GOURINADH (19KN1A0354), A. BALAJI (19KN1A0302), JANAKI RAMA RAJU (19KN1A0321)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdi), Krishna Dist.



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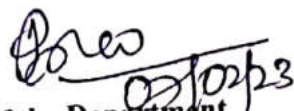


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "PV SOLAR PANEL ANALYSIS AND PERFORMANCE BASED ON DIFFERENT WIND VELOCITIES USING ANSYS SOFTWARE" is a bonafied work done by P. LAKSHMI NARAYANA REDDY (19KN1A0344), SD. SADHIK (19KN1A0347), CH. RAMAKRISHNA (19KN1A0310), N. VINAY KUMAR (19KN1A0331), P. PRANAY BHARGAV (19KN1A0341) submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M)



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URL: www.nrjit.edu.in, email: principal@nrjit.edu.in, Mobile: + 91 8333882444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**THERMAL ANALYSIS OF A STRAIGHT PLATE FIN HEAT SINK**" is a bonafied work done by **D. MAVEEN (19KNIA0314)**, **P. ADITYA VARDHAN (19KNIA0338)**, **S. SIVA KOTESWARA RAO (19KNIA0351)**, **A. JAGADEESH (19KNIA0303)**, **E.SAIKALYAN(19KNIA0317)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


7/2/23
Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU
Agiripalli (M), Eluru Dist.



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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444




DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**ANALYSIS OF MATERIAL REQUIREMENT PLANNING WITH EXPONENTIAL SMOOTHING, ARIMA FORECASTING AND FIXED ORDER QUANTITY METHODS IN OPTIMIZING THE INVENTORY IN GARMENT INDUSTRY**" is a bonafied work done D. VENU (19KN1A0313), P. NAGA GANESH (19KN1A0340), K. N. S. PRASANTH (19KN1A0330), M. PAVAN KUMAR (19KN1A0328), Ch. LOKESH (19KN1A0311) submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


07/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (M.I), Krishna Dist



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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND ANALYSIS OF V8 ENGINE CYLINDER BLOCK & PISTON USING DIFFERENT MATERIALS**" is a bonafied work done by **G. GOPI CHAND (19KN1A0319) R. VASU (19KN1A0346) G. KARTHIK SAI (19KN1A0318) P. MANOHAR (19KN1A0335) M. RAVITEJA (19KN1A0326)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

Project Supervisor

Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist



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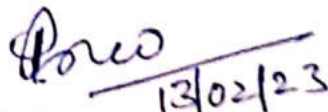


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "Experimental investigation on performance and emission characteristics of 4-stroke single cylinder diesel engine using animal fat bio-diesel" is a bonafied work done by **D. RAMESH KUMAR (19KNIA0315)**, **T. TRIPURAI AH (19KNIA0352)**, **P. PRASHANTH (19KNIA0345)**, **P. VAMSI (19KNIA0343)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


13/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vil)
Agiripalli (Mdl), Krishna Dist



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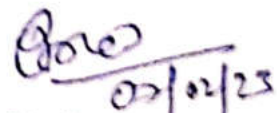


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**MODELING AND THERMAL ANALYSIS OF IC ENGINE FINS WITH DIFFERENT GEOMETRIES**" is a bonafied work done by **B. IMRAN(19KNIA0306)**, **K. GOWTHAM(19KNIA0323)**, **M. DWARAKANADH(19KNIA0329)**, **N. RAMESH KUMAR(19KNIA0332)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU(VII)
Agripalli (M), Krishna Dist



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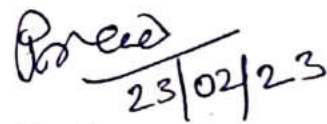


DEPARTMENT OF MECHANICAL ENGINEERING

CERIFICATE

This is to certify that the project work entitled "**PERFORMANCE ANALYSIS OF TURBINE IN THERMAL POWER PLANT**" is a bonafied work done by **M.VINAY(19KNIA0327), B. VINAY KUMAR(19KNIA0308), SK. ASIF BASHA (19KNIA0348), Y. JAGADEESH (19KNIA0355)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


23/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.



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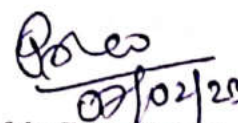


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**MODELING AND STRUCTURAL ANALYSIS OR REAR END DIFFERENTIAL GEAR BOX AT DIFFERENT SPEEDS AND WITH DIFFERENT MATERIALS**" is a bonafied work done by **B. SUBHASH (19KN1A0305), P. ANKITH (19KN1A0336), N. SANDEEP (19KN1A0333), P. SIVA KUMAR (19KN1A0337)** Submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (M), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND PERFORMANCE ANALYSIS OF SHOCK ABSORBERS IN TWO WHEELERS**" is a bonafied work done by **A. SRI JAYA RAMA ABISHEK (19KN1A0301)**, **CH. GURU PRASAD (19KN1A0309)**, **B. BALAJI (19KN1A0307)**, **M. SAI (19KN1A0325)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIR)
Agiripalli (Mdi), Kri-Sna Dist

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DEPARTMENT OF MECHANICAL ENGINEERING

This is to certify that the project work entitled "**EXPERIMENTAL INVESTIGATION ON MACHINING OF MAGNESIUM (AZ91E) METAL MATRIX COMPOSITE BY USING ELECTRIC DISCHARGE MACHINING**" is a bonafide work done by **G.ANIL (20KN5A0311)**, **T.BHANU PRAKASH REDDY (20KN5A0352)**, **R.NAGA BABU (20KN5A0343)**, **N.MANI RAJ (20KN5A0333)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

[Signature]
20/01/2023

Project Supervisor

[Signature]
20/01/23

Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist

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DEPARTMENT OF MECHANICAL ENGINEERING

This is to certify that the project work entitled "**PERFORMANCE AND EMISSION ANALYSIS ON 4 STROKE DIESEL ENGINE BY USING RICE BRAN BIODIESEL**" is a bonafide work done by **M. MADHU SAI SUMANTH (20KN5A0331)**, **K. NAGA SAI KUMAR(20KN5A024)**, **Y.BHUVAN RAJ (20KN5A0360)**, **P.JAYA RAM (20KN5A0336)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.



Project Supervisor



Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (Mdl), Krishna



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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444




DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DEVELOPMENT AND TESTING THE CHARACTERISTICS OF FLY ASH, POLYESTER RESIN, AND GLASS FIBRE REINFORCED COMPOSITES**" is a bonafied work done by **A. HARISH (20KN5A0302), K. NAVENDRA (20KN5A0319), J. MOJESH RAO (20KN5A0316), K. RAM PRASAD (20KN5A0320)**, submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


6/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist



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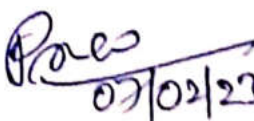


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**MODELING AND ANALYSIS OF CRANKSHAFT**" is a bonafied work done by **T. KIRAN KUMAR (20KN5A0349)**, **A. HARSHA VARSHAN (20KN5A0301)**, **K. ESHWAR SANTHOSH (20KN5A0325)**, **R. SAI KUMAR (20KN5A0544)**, Submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


02/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Krishna Dist

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND NUMERICAL SIMULATION OF TUBE IN TUBE HEAT EXCHANGER**" is a bonafied work done by G.BHARGAV SAI (20KN5A0313), P.ROHITH (20KN5A0345), N.RAVEEN (20KN5A0334), J.V.S.S.NEERAJ KUMAR (20KN5A0315) submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


Head of the Department

6/2/23
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (Mdl), Krishna Dist



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principal@nriit.edu.in, Mobile: + 91 8333882444

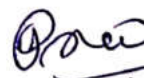


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**MODELING AND ANALYSIS OF A CERAMIC COATED IC ENGINE PISTON HEAD**" is a bonafied work done by **SK. MUNEER (20KN5A0346), M. RAGHU VAMSIKRISHNA (20KN5A0327), D. JITHENDRAKRISHNA (20KN5A0308), V. DILEEP KUMAR (20KN5A0346)** Submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


6/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**EXPERIMENTAL INVESTIGATION ON PERFORMANCE AND EMISSION CHARACTERISTICS OF A DIESEL ENGINE FUELED WITH PALMYRA BIODIESEL**" is a bonafide work done by **T. MRUTHYUM JAY (20KN5A0351), V. DUEGA PRASAD (20KN5A0357), N. SRINIVASA RAO (20KN5A0332), V. SHYAM SUNDAR (20KN5A0355)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, **KAKINADA** during the academic year 2022-2023.


07/02/23
Project Supervisor


07/02/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VII)
Agiripalli (Mdl), Krishna Dist.



NRI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

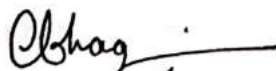
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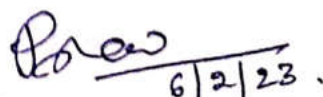


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "FINITE ELEMENT ANALYSIS OF KNUCKLE JOINT WITH DIFFERENT MATERIALS USING ANSYS" is a bonafied work done by MD. ENAMULLA (20KN5A0328), J. AYYAPPA (20KN5A0317), O. SAMBA SIVA RAO (20KN5A0335), G. CHANDRA SHEKHAR (20KN5A0312) submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


Project Supervisor


6/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND ANALYSIS OF SHREDDER BLADE FOR CUTTING PLASTICS**" is a bonafied work done by T.GOPIRAJU (20KN5A0353), B.MURALI KRISHNA (20KN5A0305), A.VINAY KUMAR (20KN5A0358), M.NITHIN KALYAN (20KN5A330), submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

B. No. Nagesh
Project Supervisor

P. Rao
6/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mtd), Krishna Dist.



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principal@nriit.edu.in, Mobile: + 91 8333882444

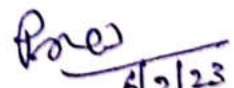


DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**MODELING AND ANALYSIS OF A PROSTHETIC RUNNER BLADE**" is a bonafide work done by **P. HARI KRISHNA (20KN5A0337)**, **P. PARDHA SAI (20KN5A0339)**, **K. CHANDU (20KN5A0322)**, **I. BRAHMAIAH (20KN5A0314)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022- 2023.


Project Supervisor


6/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mal), Krishna Dist.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**STATIC AND FATIGUE ANALYSIS OF ALUMINIUM ALLOY WHEEL RIM USING CATIA AND SOFTWARE**" is a bonafied work done by **P. SIVA GOPI (20KN5A0338), B. KUMAR BABU (20KN5A0304), P. SAI KIRAN (20KN5A0340), B. SIVA VENKATA PRASAD (20KN5A0303)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.


Project Supervisor


Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mcl), Krishna Dist.



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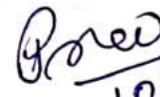


DEPARTMENT OF MECHANICA ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "ENHANCEMENT OF COP IN VAPOUR COMPRESSION REFRIGERATION SYSTEM WITH DC COMPRESSOR" is a bonafide work done by **K. SRIKANTH(20KN5A0321)**, **B.N V D DATTA SAI (20KN5A0306)**, **V. RATNA RAMESH (20KN5A0356)**, **P. SUJITH PHANINDRA (20KN5A0341)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.


10/02/2023
Project Supervisor


10/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.

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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND ANALYSIS OF AUTOMOBILE DISC BRAKE USING ANSYS**" is a bonafied work done by **T. Vamsi (20KN5A0350)**, **Ch.Kasulu (20KN5A0307)**, **M. Srikanth (20KN5A0326)**, and **K. N. V. Hemanth (20KN5A0323)** submitted in the partial fulfillment of requirements of the award of degree in **Bachelor of Technology in Mechanical Engineering** to NRI Institute of Technology, Vijayawada, affiliated to **JNTUK, KAKINADA** during the academic year 2022-2023.

M. Jayanthi
9/2/23

Project Supervisor

Poreo
09/02/23

Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (Vii)
Agiripalli (Mdl), Krishna Dist

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF MARBLE DUST POWDER AND Al_2O_3 REINFORCED COMPOSITES FOR BRAKE PAD" is a bonafied work done by V.L.V.CHAITHANYA (20K5A0354), SULEMAN KHAN (20KN5A0348), Y.VENKATESWARA RAO (20KN5A0361), D.SAIDU HUSSEN (20KN5A0309) submitted in the partial fulfilment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

M. Surendra Kumar
Project Supervisor

Pores
7/2/23
Head of the Department
Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "MODELING AND ANALYSIS OF LEAF SPRING USING COMPOSITE MATERIALS" is a bonafied work done by SK. RASOOL (20KN5A0347), R. ROHITH BALAJI (20KN5A0342), E. YASWANTH PRADEEP (20KN5A0310), K. HEMANTH (20KN5A0318), submitted in the partial fulfillment of requirements of the award of degree in Bachelor of Technology in Mechanical Engineering to NRI Institute of Technology, Vijayawada, affiliated to JNTUK, KAKINADA during the academic year 2022-2023.

Ct
06/02/2023
Project Supervisor

Pore
6/2/23
Head of the Department

Head, Mechanical Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Izdl), Krishna Dist

NRI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONIC COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "POWER AND AREA EFFICIENT APPROXIMATE MULTIPLIER USING COMPRESSORS" that is being submitted by A.JAGADEESH (19KN1A0410), ABDUL AZEEZ (19KN1A0401), E.VINAY YADAV (19KN1A0464), CH.LIKITHA (19KN1A0439), in partial fulfilment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.

D. MURALI M. Tech, (Ph. D)

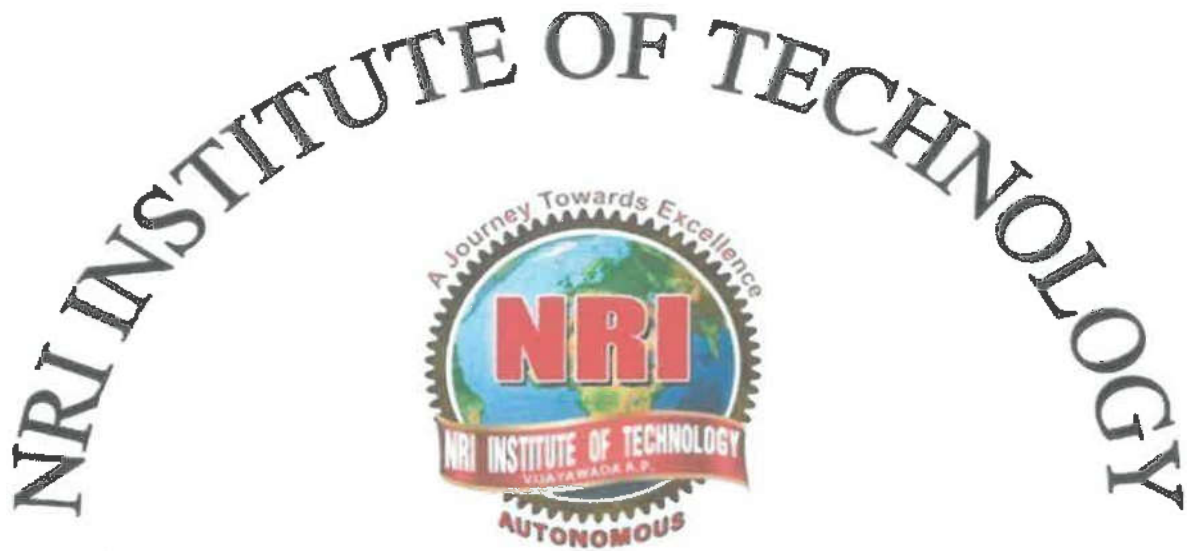
Associate Professor

DR. R. SUNITHA M. Tech, Ph. D

Head of the Department

EXTERNAL EXAMINER

Batch-2



CERTIFICATE

This is to certify that the project entitled “**SPEECH EMOTION RECOGNITION USING SUPPORT VECTOR MACHINE**” that is being submitted by

B. PRAVEEN KUMAR - 19KN1A0433

A. KALYAN BABU - 19KN1A0406


A. ARUN BABU - 19KN1A0405

CH. SRI HARSHA - 19KN1A0437

in partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.


Dr. V. SRINIVASARAO, M. Tech, Ph. D
Professor


Dr. R. SUNITHA, M. Tech, Ph. D
Head of the Department


EXTERNAL EXAMINER

Batch - 3

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**




CERTIFICATE

This is to certify that the project report entitled **INFORMATION CONVEYING AND POWER MANAGEMENT FOR SMART CLASSROOM** that is being submitted by

B. SUSMITHA	- 19KN1A0425
B. JAYA SATYA SRI	- 19KN1A0416
G. ARUN TEJA	- 20KN5A0406
B. HARSHA VARDHAN	- 20KN5A0403

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Dr P. Rama Koteswara Rao,
M.Tech, Ph.D. (AU), MIEEE, MISTE
Professor.


Dr. R. Sumitha, Ph.D.
Professor & Head



External Examiner

Batch-4

**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING**



CERTIFICATE

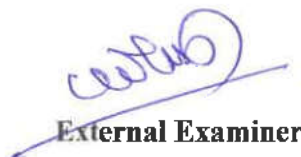
This is to certify that the Project entitled “**PARKING SYSTEM OF VEHICLE USING IMAGE PROCESSING**” that is being submitted by **Meghana Bhupati** (19KN1A0426), **Sree Manju Gurram** (19KN1A0460), **Ramakoti Reddy Baddigam** (19KN1A0413), in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.



Dr. V. Ramesh Babu M.Tech, Ph.D
Professor



Dr. R. Sunitha M.Tech, Ph.D.
Head of the Department



External Examiner

Batch-5

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "ENHANCED HASH BASED IMAGE STEGANOGRPHY TECHINQUE TO INCREASE DATA INTEGRITY AND CONFIDENTIALITY" that is being submitted by

G. V Kathyayeni	(19KN1A0452)
G. Satish Kumar	(19KN1A0453)
D. Ajay	(19KN1A0441)
B. Lahari Devi	(19KN1A0421)

In partial fulfilment for the award of Bachelor of Technology in Electronics and Communication Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bona fide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.



Mr. B. PHANINDRA KUMAR
Assistant professor



Dr. R. SUNITHA
Professor & Head of the Department



External Examiner

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**





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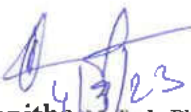
This is to certify that the project report entitled “**Design & Development of Metamaterial Based Microstrip Patch Antenna for Wireless Applications**” that is being submitted by

G. SUJITH	19KN1A0458
G. NIKHILA	19KN1A0457
B. SIVANAGARAJU	19KN1A0430
CH. DILIP NARAYANA	19KN1A0438

in partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Dr. S.V. Ramarao M. Tech, Ph. D
Associate Professor


External Examiner


Dr. R. Sunitha M. Tech, Ph. D
Professor & Head

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**




CERTIFICATE


This is to certify that the Project entitled "SMART DISPLAY USING RASPBERRY PI-4" that is being submitted by

G. SAI TEJA	19KNIA0459
K. HARI PRIYANKA	19KNIA0462
B. DURGA SURENDRA	19KNIA0420
B. KARTHIK CHOWDARY	19KNIA0429

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Prof. B. V. R. V. VRASAD
Professor


Dr. R. SUNITHA, M.Tech, Ph. D
Professor & Head


EXTERNAL EXAMINER.

Batch - 8

Department of
**ELECTRONICS AND COMMUNICATION
ENGINEERING**



This is to certify that the Project entitled “**DESIGN AND IMPLEMENTATION OF MAC UNIT BY USING DADDA ALGORITHM FOR PARTIAL PRODUCT REDUCTION**” that is being submitted by

B. Naga Sravya	(19KN1A0431)
D. Lakshmi Sravanthi	(19KN1A0442)
CH. Prasanthi Kumari	(20KN5A0404)
B. Pradeep	(20KN5A0401)

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.

y. Arpitha

Mrs. Y. ARPITHA, M.E, (Ph. D.)
Associate Professor

R. Sunitha

Dr. R. SUNITHA, Ph.D
Head of the Department

(Signature)
External Examiner
Acknowledgement

Batch - 9

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled “**Social Distancing And Anti-Riot Drone with Tear Gas**” that is being submitted by

G. DEEPTHI	19KN1A0454
D. BHUVANA MADHURI	19KN1A0427
B. SWAMI SEKHAR	20KN5A0402
CH. MANOJ KUMAR	20KN5A0405

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

48
06/03/23

Mrs. B. SNEHA LATHA, M-Tech
Asst. Professor

6/3/23

Dr. R. Sunitha M. Tech, Ph. D
professor & Head of the department

COOAO

EXTERNAL EXAMINER

Batch 19

NRI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled **AUTONOMOUS FERTILIZER DISPENSER FOR AGRICULTURAL APPLICATIONS** that is being submitted by

D.KALYANI - 19KN1A0445
CH.LOKESWARI -19KN1A0440
D.LOKESH -19KN1A0444

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Signature of Guide

Dr. Abdul Rahiman. Sk, Ph.D
Associate professor

Signature of HOD

Dr. R. Sunitha, Ph.D
Head of the department

EXTERNAL EXAMINER

Batch-11

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**




CERTIFICATE


This is to certify that the project report entitled “**SECURE LAB ACCESS USING CARD SCANNER PLUS FACE RECOGNITION**” that is being submitted by

D. Ravindra	19KN1A0449
E. Madhu Latha	19KN1A0451
B. Kishore Prakash	19KN1A0418
A. Anupama	19KN1A0407

in partial fulfillment for the **Bachelor of Technology** in **Electronics & Communication Engineering** award to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bona fide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Mr. P. VENU GOPAL, M. Tech
Associate professor


Dr. R. SUNITHA
Professor & Head of the Department


External Examiner



CERTIFICATE

This is to certify that the Project entitled “SIGN LANGUAGE RECOGNITION SYSTEM USING CONVOLUTIONAL NEURAL NETWORK” that is being submitted by **D. HEMA SAI** (19KN1A0448), **A. SAI JITHENDRA** (19KN1A0404), **D. THANMAI** (19KN1A0463), in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Mr. SK ASHRAF ALI, M. Tech, (Ph.D)

Associate Professor


DR. R. SUNITHA M. Tech, Ph. D

Head of the Department


External Examiner

**DEPARTMENT OF
ELECTRONIC COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled "ALTERED PULSE AIDABLE EMERGENCY VENTILATOR" that is being submitted by B.SAI KUSHAL SINGH (19KN1A0424), AJAY KOTA (19KN1A0402), G.PRASANNA KUMAR (19KN1A0456), B.POUL (19KN1A0428), in partial fulfilment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree or diploma during the year 2019- 2023.

SWATHI KAMBHAMPATI M. Tech

Associate Professor

DR. R. SUNITHA M. Tech, Ph. D

Head of the Department

External Examiner

Acknowledgement

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

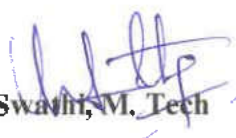
This is to certify that the project entitled “**HOSTEL GIRLS SECURITY USING RASPBERRY PI PICO**” that is being submitted by


B. NANDINI - 19KN1A0432


CH. TEJASWI - 19KN1A0434

E. LAVANYA - 19KN1A0450

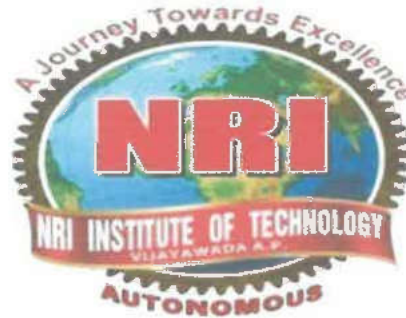
In partial fulfilment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of Bona-fide work carried out by them under my guidance and Supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma during the year 2019-2023.


CH. Swathi, M. Tech
Associate Professor


Dr. R. Sunitha, M. Tech, Ph. D
Head of the Department


External Examiner

**Department of
ELECTRONICS AND COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “**IDENTIFICATION OF CORONARY HEART DISEASE THROUGH IRIS USING DEEP LEARNING**” that is being submitted by **CH. SYAMALA (19KN1A0436), A. ANITHA (19KN1A0411), B.V. SURRENDRA BABU(19KN1A0423), B. JAYA PRAKASH (19KN1A0428)**, in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.

Dr.S. VARA KUMARI, M.Tech ,Ph.D.

Associate Professor

Dr. R. SUNITHA, Ph.D.

Professor & HOD of ECE

External Examiner
Acknowledgement



CERTIFICATE

This is to certify that the Project entitled "Control Abnormal Situations with Facial Expressions using Deep Learning Techniques" that is being submitted by Ch. Sai Sindhu(19KN1A0435), G. Preethil(19KN10A455), B. Prudhirk(19KN1A0414), G. Ashok(19KN10A461), in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree or diploma during the year 2019-2023.


A. SATHYA BABU
Assistant Professor


Dr. R. SUNITHA, Ph.D
Head of the Department


External Examiner

Acknowledgement

Barun-17

NRI INSTITUTE OF TECHNOLOGY



CERTIFICATE

This is to certify that the Project entitled "WEARABLE VISION ASSISTANCE SYSTEM BASED ON BINOCULAR SENSORS FOR VISUALLY IMPAIRED USERS" that is being submitted by A.N.NIKHILESWAR (19KN1A0409), D.ROJA (19KN1A0447), A.CHAITANYA PRIYANKA (19KN1A0408), D.KARTHEEK (19KN1A0443), in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.

Syed
06/03/23

Mr. Syed Usman, M. Tech
Assistant Professor

[Signature]
6/3/23

DR. R. SUNITHA, Ph. D
Head of the Department

[Signature]

External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled **DESIGN A HIGH SPEED AND FAULT FREE MEMORY COMPUTING WITH ADDRESS BASED SRAM ARCHITECTURE** that is being submitted by

- P Krishnapriya (19KN1A04C2)
- K Durga Sri Mahalakshmi (20KN5A0411)
- K Manoj Kumar (19KN1A0487)
- K Vinay (20KN5A0408)

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Syed 06/03/23
Signature of Guide
MR. Syed Usman, M.TECH
Assistant Professor, Department of ECE

Dr. R. Sunitha
Signature of HOD
Dr. R. Sunitha
Prof & Head

Ghy
Signature of External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “CLASSIFICATION OF BRAIN TUMOR USING CNN” that is being submitted by,

M. Snehitha Chowdary	(19KN1A04A3)
K. Neeraja	(19KN1A0484)
M. Manmohan prasad	(19KN1A04A2)
K. Charan Sai Kumar	(19KN1A0485)

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics & Communication Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

G. SRINIVAS BABU, M. TECH, (Ph.D.)

Associate Professor, Department of ECE

Dr. R. SUNITHA

Professor & Head of ECE

EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**





CERTIFICATE


This is to certify that the project report entitled LEAF DISEASE DETECTION AND AUTOMATIC PESTICIDE SPRAYING CONTROL ROBOT USING RASPBERRY PI that is being submitted by

P. REVATHI - 19KN1A04C5
K. V. SUDHARANI - 19KN1A0476
S. JANARDHAN - 19KN1A04C7
K.S.S.V. IYER - 19KN1A0477

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bona fide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Dr. R. SUNITHA
Supervisor


Dr. R. SUNITHA
Professor & Head


External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled **Gender And Age Classification Using Deep Learning** that is being submitted by

Hasitha Vidya.Y	-19KN1A0465
Venkata Narendra.L	-19KN1A0496
Dakshinya.M	-19KN1A0499
Satyanarayana.K	-19KN1A0491

in partial fulfillment for the award of **Bachelor of Technology** in **Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

(Dr. V. Srinivasarao)
Professor


External Examiner

(Dr. R. Sunitha)
Professor & Head

ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Solar Powered Moisture Control of Fresh Harvested Mangoes for Export Quality” that is being submitted by

J Yesu Babu -19KN1A0475

P Siva Sankar -19KN1A04C4

I Satish -19KN1A0466

M Mallikarjuna -19KN1A04A9

in partial fulfilment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Dr P. Rama Koteswara Rao

M.Tech, Ph.D(AU), MIEEE, MISTE

Professor and Dean


Dr R. Sunitha

M.Tech, Ph.D

Professor and Head


External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled “**A Combined Message Encryption & Decryption Cryptographic Algorithm Based On AES and RSA Algorithms**” that is being submitted by

K.LAKSHMI PREETHI	-19KN1A0481
N.TEJASWINI	-19KN1A04B9
K.GEYA GEETHIKA	-19KN1A0490
M.SAI SURENDRA	-19KN1A04B1

in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Mr. R. UPENDAR RAO, M.TECH
Associate Professor

Dr. R. Sunitha, Ph.D
Professor & Head

External Examiner

ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project report entitled **Recognition of Finger knuckle print for personal authentication based on principal component analysis** that is being submitted by

KYATHI RAMADEVI .P - 19KN1A04C3

KIRAN TEJA .K - 19KN1A0494

NARAYANA REDDY K - 19KN1A0489

PAVAN TEJA K - 19KN1A0479

in partial fulfillment for the award of **Bachelor of Technology** in **Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Mr. P.N.B. Swamy, M.Tech
Assistant Professor


Dr. R. Sunitha, Ph.D
Professor & Head


External Examiner

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled "A Secure Hybrid Biometrics Based E-Voting System for Election Process" that is being submitted by

J. PADMAVATHI	19KN1A0476
M. JAHNAVI	19KN1A04A6
M. JAHNAVI	19KN1A04A7
M. HEMANTH	19KN1A04A1

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics & Communication Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Dr. S. V. Ramarao M. Tech, Ph. D

Associate Professor

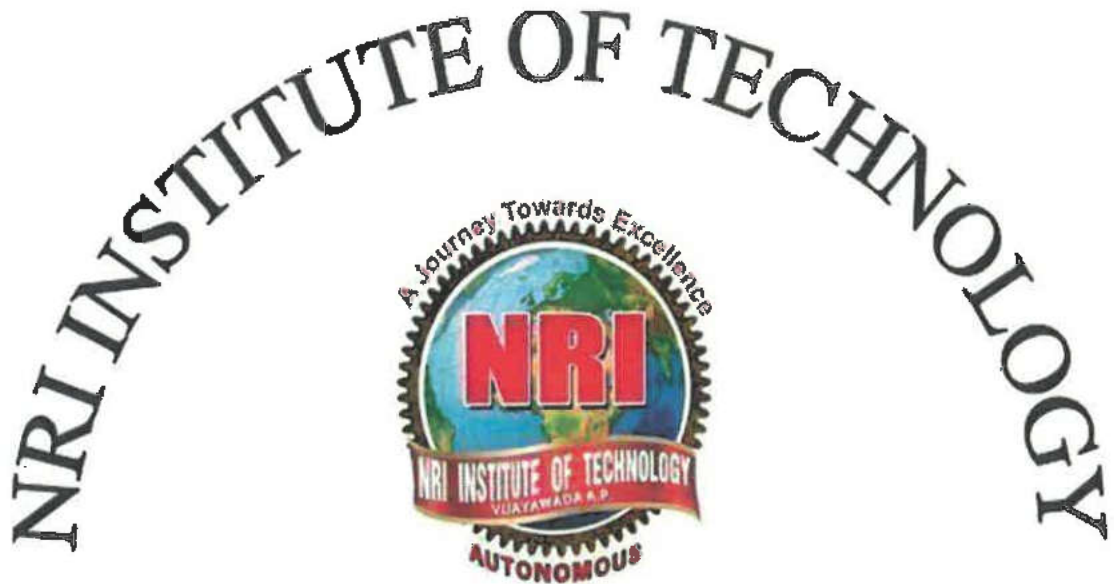

Dr. R. Sunitha M. Tech, Ph. D

Professor & Head



External Examiner

Acknowledgement



CERTIFICATE

This is to certify that the project entitled “**Implementation of voice based system for dumb people using hand gestures**” that is being submitted by

V. Pujitha	(19KN1A04C8)
K. Likhitha	(19KN1A0480)
M. Dharani	(19KN1A04A4)
M. S. Nikhileswar Nag	(19KN1A04A5)

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report has not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.

y. Arpitha
Mrs. Yalamanchili Arpitha, M.E [Ph.D]
Associate Professor

R. Sunitha
Dr. R. Sunitha, Ph.D
Head of the Department

ghy
External Examiner

**Department of
ELECTRONICS&COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled “**DOODLE BASED AUTHENTICATION TECHNIQUE USING AUGMENTED REALITY**” that is being given by

K. DIVYA	(19KN1A0482)
K.V.S VASANTH KUMAR	(19KN1A0486)
J. TEJESH	(19KN1A0471)
J. SAIKIRAN	(19KN1A0472)

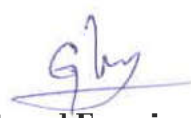
In partial fulfilment for the award of the degree **Bachelor of Technology** in Electronics & Communication Engineering to the **NRI Institute of Technology Vijayawada**, is a record of bona fide work carried out by them under my guidance and supervision. The results embodied in this project report have not been given to any other university or institute for the award of any degree or diploma.


Dr.K. Prathyusha, M.TECH., Ph.D.

Associate Professor, Department of ECE


Dr. R. Sunitha

Prof & Head of ECE


External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**





CERTIFICATE


This is to certify that the project entitled **SOLAR AND WIND MOBILE & LAPTOP CHARGING SYSTEM** that is being submitted by

K. Lokeswari	19KN1A0493
N. Tharun	19KN1A04C1
J. Niharika	20KN5A0407
M. Sai Charan	19KN1A0498

in partial fulfilment for the award of the degree of **Bachelor of Technology** in **Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.


CH. SWATHI, M. Tech
Project guide


Dr. R. Sunitha
Head of Department


External Examiner
Acknowledgement

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled **IOT BASED AIR AND SOUND POLLUTION MONITORING SYSTEM** that is being submitted by

N. Madhu Babu(19KN1A04C0)

N. Anil (19KN1A04B5)

M. Manikanta(19KN1A04B0)

M. Sandeep(19KN1A0497)

I. Siva Kumar(19KN1A0467)

in partial fulfillment for the award of **Bachelor Of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project have not been submitted to any other University or Institute for the award of any degree or diploma


Mrs. G. SREE LAKSHMI
Associate Professor


External Examiner


Dr. R. SUNITHA
Professor & Head

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND IMPLEMENTATION OF KOGGE-STONE PARALLEL PREFIX ADDER ARCHITECTURE USING LABVIEW**” that is being submitted by

N. BINDU MADHURI -19KN1A04B6

J. JISHMA VYSHNAVI -19KN1A0470

M. TEJASWI -19KN1A04A0

I. POOJITHA -19KN1A0468

in partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.

D. Ravisankar
Mr. D. RAVISANKAR, M. TECH
Associate professor, Department of ECE

Dr. R. Sunitha
Dr. R. SUNITHA, Ph. D
Head of the Department

Ghy
External Examiner

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



This is to certify that the project report entitled **Obstacle Avoidance For UAV Path Using Optimized Gradient Descent Algorithm** that is being submitted by

- | | |
|------------------|--------------|
| K. Naga Indu Sri | (19KN1A04B4) |
| K. Pravalika | (19KN1A0483) |
| K. Tanuja | (20KN5A0410) |
| K. Tanvi | (20KN5A0409) |

in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or institute for the award of any degree or diploma.

N. Malathi
Mrs.N.MALATHI
 Assistant Professor

Dr. R. Sunita
Dr.R.SUNITHA, Ph.D
 Professor & Head of ECE

Ghy
EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION
ENGINEERING**



CERTIFICATE


This is to certify that the project report entitled “**Controlling A Robotic Arm Using Hand Recognition Software**” that is being submitted by

J. AnjaniPriya	19KN1A0473
L. Aravind	19KN1A0495
K. Gopichand	19KN1A0488
K. Mahesh	19KN1A0492

in partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bona fide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


Mr. P. VENU GOPAL
Associate Professor


Dr. R. SUNITHA
Professor & Head


External Examiner

Department of
ELECTRONICS & COMMUNICATION ENGINEERING

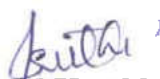



CERTIFICATE

This is to certify that the project report entitled **DESIGN OF AN EFFICIENT HIGH-SPEED RADIX 4 BOOTH MULTIPLIER USING CLA ADDER FOR HIGH-SPEED ARCHITECTURES** that is being submitted by

J. Jyothswara Venkata Sai Kumar	19KN1A0469
M. Manish Krishna	19KN1A04A8
M. Manoj	19KN1A04B3
P. Rahul	19KN1A04C6

In partial fulfillment for the award of **Bachelor of Technology in Electronics & Communication Engineering to the Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project have not been submitted to any other University or institute for the award of any degree or diploma.


Mrs. Swathi Kambhampati M. Tech
Associate professor


Dr. R. Sunitha
Professor & Head



Department of
ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that the project entitled "SOLAR BASED WIRELESS CHARGING STATIONS FOR ELECTRICAL VEHICLES" that is being submitted by

N. SRAVANI	-19KN1A04B7
J. DHANA LAKSHMI	-19KN1A0474
N. CHIRU DIVYA	-20KN5A0412
N. SRINIVAS	-19KN1A04B8

in partial fulfilment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering to the Jawaharlal Nehru Technological University Kakinada, is a record of Bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma during the year 2019- 2023.

Mr. Mahesh
Mr. M. Mahesh, M. Tech (Ph.D)
Project guide

Dr. R. Sunitha
Dr. R. Sunitha, Ph.D
Head of Department

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled “**DETECTION AND IDENTIFICATION OF CYBER- ATTACKS WITH MACHINE LEARNING APPROACH**” that is being submitted by

V. NEELIMA	19KN1A04I5
T. SIVALEELA	19KN1A04G7
SK. GOWSIA PYARI	20KN5A04I5
V. JOHN	19KN1A04H1
T. HARSHA VARDHAN	19KN1A04G9

in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Prof. B V R V PRASAD

Professor of ECE


Dr. R. SUNITHA

Head of the Department


06/3/23
Dr. J. Satyanarayana
EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “**DIABETIC RETIONOPATHY STAGES PREDICTION USING DEEP LEARNING**” that is being submitted by

L. SAI SRUTHI	19KN1A04E9
P. CHIRANJEEVI	19KN1A04D9
V. MUKESH REDDY	19KN1A04H9
P. SUMANTH	19KN1A04C9

in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Mr. R. UPENDAR RAO, M. Tech
Associate Professor


Dr. R. SUNITHA, Ph. D
Head of the Department


Dr. T. Setyanarayana
External Examiner

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "**BRAIN TUMOR CLASSIFICATION USING PRE-TRAINED MODELS**" That is being submitted by

SK AYESHA FIRDOSS	(19KN1A04F6)
S PRAVACHANA	(19KN1A04F2)
SK SHARFUDDHIN	(19KN1A04F8)
SK ABDUL KAREEM	(19KN1A04F3)

in partial fulfillment for the award of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.


Mr. G. SRINIVAS BABU M.Tech. (Ph.D)

Associate Professor, Department of ECE


Dr. R. SUNITHA, Ph.D

Head of the Department


Dr. T. Satyanarayana
EXTERNAL EXAMINER

Department of
ELECTRONICS & COMMUNICATION ENGINEERING




CERTIFICATE

This is to certify that the Project entitled “**VEHICLE NUMBER PLATE & UNAUTHORIZED VEHICLE RECOGNITION SYSTEM** ” that is being submitted by

T.B.S Pranitha	(19KN10A4G8)
T. Kavya	(19KN1A04H3)
D. Sujitha	(19KN10A4G3)
V. Chandra Sekhar	(19KN10A4I4)
U.Ashok	(19KN10A4H5)


in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Mr. Sk.Ashraf Ali , M.Tech(Ph.D)

(Associate Professor)


Dr .R.Sunitha

(Professor & Head)


Dr. P. Satyanarayana
External Examiner

Department of
ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

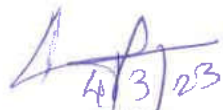
This is to certify that the Project entitled “**FPGA BASED HOME SECURITY SYSTEM**” that is being submitted by

P.SAI LAKSHMI	19KN1A04D3
P.SIVA PARVATHI	19KN1A04E2
S.NAMRATHA	19KN1A04G4
S.RAVINDRA BABU	20KN5A0417


in partial fulfillment for the award of **Bachelor of Technology** in **Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019-2023.


Dr. V. RAMESH BABU M.Tech, Ph.D.

Professor


Dr. R. SUNITHA, Ph.D.

Head of the Department


06/3/23
Dr. J. Satyanarayana
External Examiner

2023-24

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "IMPLEMENTATION OF CHILD TRACKING SYSTEM USING IOT" is a bonafide work carried out by R. SAI HARSHITHA (19KN1A04E4), R. GURUDEVI (19KN1A04E3), S. ASHOK (19KN1A04G5) and R. SUBHASH REDDY (19KN1A04E5) in partial fulfillment for the award of degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University Kakinada during the year 2019 - 2023.

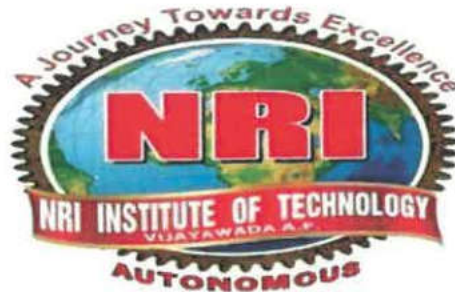
D. Ravi Sankar
(Sri D.RAVI SANKAR)

Project Guide

(Dr. R. SUNITHA)
Head of the Department

06/3/23
Dr. T. Satyanarayana
EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “AN EFFECTIVE ANDROID BASED BUS LIVE TRACKING SYSTEM USING ARDUINO” that is being submitted by

Sk. Asima Hasrath	(19KN1A04F5)
Sk. Shajahan	(19KN10A4F9)
S. Gayathri Priya	(20KN5A0416)
U. Likhith Kumar	(19KN1A04H7)

in partial fulfillment for the award of **Bachelor of Technology in Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

K. Prathyusha
Dr. K. PRATHYUSHA, M.Tech, Ph.D.,

Associate Professor

R. Sunita
Dr. R.SUNITHA, Ph.D.,

Head of the Department

Dr. J. Satyanarayana
06/13/20
External Examiner

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE


This is to certify that the Project entitled “RFID BASED SMART MOVABLE ROAD DIVIDER WITH AMBULANCE PRIORITY SYSTEM” that is being submitted by

P.Harshitha	19KN1A04D2
Sk.Shanawaz	19KN1A04F7
U.Aiswarya	19KN1A04H6
Y.S.P.Pravallika	19KN1A04J2

in partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Mr. B. Phanindra Kumar, M.Tech.

Assistant Professor


Dr. R. Sunitha

Head of the Department


Dr. T. Satyanarayana
External Examiner

**Department of
ELECTRONICS AND COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “ELECTRICITY THEFT DETECTION AND AUTOMATIC BILL GENERATE USING IOT” That is being submitted by

P.VISHNU	(19KN1A04D8)
P.V.MEGHANA	(19KN1A04D6)
G.SIVARAMAKRISHNA	(19KN1A04G1)
P.ACHUTHA GOLD	(19KN1A04E0)

in partial fulfillment for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University Kakinada** during the year 2019 – 2023.


(Mrs. G.SREE LAKSHMI)
Project Guide


(Dr. R. SUNITHA)
Head of the Department


06/3/23
Dr. P. Satyanarayana
EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “**IOT BASED PATIENT MONITORING SYSTEM**” that is being submitted by

S. PAVANI	19KN1A04F0
P. KARTHIK	19KN1A04D0
S. RAMYA SRI	19KN1A04G0
V. GANGADHAR PHANI KRISHNA	19KN1A04I7

in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.


Dr. S. VARAKUMARI
Associate Professor


Dr. R. SUNITHA
Head of the Department


Dr. T. Satyanarayana
EXTERNAL EXAMINER

Department of
ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled “LFSR Based Test Pattern Generation For Complex Circuits ” that is being submitted by

P. SIVA VEDA SRI	(19KN1A04G2)
S. MONIKA	(19KN1A04G6)
Y. RAKESH SHIVA SATYANARAYANA	(19KN1A04J3)
N.S.S.S.PAVAN	(20KN5A04I3)

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering to the Jawaharlal Nehru Technological University Kakinada , is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to anyother University or Institute for the award of any degree or diploma during the year 2019- 2023.

N.M.L.H.
Mrs. N. MALATHI , M.Tech.

Assistant Professor

[Signature]
Dr. R. SUNITHA, Ph.D

Head of the Department

[Signature]
Dr. P. Satyanarayana
EXTERNAL EXAMINER

**Department of
ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the Project entitled “**TRAFFIC LIGHT CONTROL SYSTEM USING IMAGE PROCESSING**” that is being submitted by **P.V.D. Ganesh(19KN1A04D4), V. Susmitha(19KN1A04I8), V.V.S. Arun Kumar (19KN1A04H8), V. Siva Kiran Reddy(19KN1A04I9)**, in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of Bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to another University or Institute for the award of any degree or diploma during the year 2019- 2023.

Dr. R. SUNITHA, Ph.D.

Supervisor

Dr. R. SUNITHA, Ph.D.

Head of the Department

Dr. T. Satyanarayana
External Examiner

ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE


This is to certify that the project report entitled "Smart Way of Motorcycle Problems Solved Based On IOT" that is being submitted by

R. NAGA ROHITH	19KN1A04E7
T. MANASA	19KN1A04H4
Y. SUMAN RAJA	19KN1A04J1
P.N.V LOKESH	19KN1A04D7

in partial fulfilment for the award of **Bachelor of Technology in Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.


A. SATHI BABU, M. TECH
Assistant Professor, ECE
Department of ECE


Dr. R. SUNITHA, Ph. D
Professor & HOD of ECE
Department of ECE


Dr. J. Satyanarayana
External Examiner

Batch-14

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled “AUTONOMOUS FIRE DETECTION AND CONTROLLING ROBOT” is a bonafide work carried out by P.M.V. S AN T H O S H (19KN1A04D1), R. HEMA PRASAD (19KN1A04E8), V. VINAY KUMAR (19KN1A04J0), I. RAVEENDRA (20KN5A0414) in partial fulfillment for the Bachelor of Technology in “Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada during the year 2022 – 2023.

M. Mahesh

Mr. M. MAHESH, M. TECH, (Ph.D.)

Project Guide

R. Sunitha

Dr. R. Sunitha, M. TECH, (Ph.D.)

Head of the Department

06/3/23

Dr. T. Satyanarayana

Department of
ELECTRONICS & COMMUNICATION ENGINEERING





CERTIFICATE

This is to certify that the project report entitled “**TRACKING UNAUTHORIZED ACCESS USING MACHINE LEARNING FOR FACE RECOGNITION**” that is being submitted by

V. Rahul	(19KN1A04I0)
SK. Arfath Hussain	(19KN1A04F4)
V. Durga Naga Prasad	(19KN1A04I3)
T. Bhaviansh	(20KN5A0418)

In partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics & Communication Engineering** to the **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.


Mr. P.N.B. SWAMY, M.Tech
Assistant Professor


Dr. R. SUNITHA, Ph.D.
Head of the Department


Dr. T. Satyanarayana
External Examiner

NRI INSTITUTE OF TECHNOLOGY



CERTIFICATE

This is to certify that the Project entitled " **AUTOMATIC ROBOTIC ARM FOR WASTE SEGREGATION** " that is being submitted by **V. SAI BABU (19KN1A04I2)** , **T. KIRAN KUMAR (19KN1A04H0)** , **T. TEJASWINI (19KN1A04H2)** , **T. CHIRANJEEVI (19KN1A04H1)** , in partial fulfilment for the award of the degree of **Bachelor of Technology in Electronics and Communication Engineering** of **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year **2019- 2022**.

Dr. Abdul Rahman. Sheik

(Associate Professor)

Dr. R. Subitha

(Prof & Head)

Dr. T. Satyanarayana
06/11/23

Department of
ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project entitled “AN ENHANCEMENT OF FAST MAPPING AND UPDATING ALGORITHMS FOR A BINARY CAM” that is being submitted by

S. SRINIVASA RAO	19KN1A04F1
R. MARY LAVANYA	19KN1A04E6
P. LAKSHMI SUDEEPTHI	19KN1A04E1
V. HIRANMAYI	19KN1A04I6
P. PAVANI	19KN1A04D5

in partial fulfillment for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma during the year 2019- 2023.

Mr. D. MURALI, M. Tech, (Ph.D)

Associate Professor

Dr. R. SUNITHA, Ph. D

Head of the Department

06/1/23
Dr. P. Satyanarayana
External Examiner



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PIN: 521212, A.P, India



Certificate

This is to certify that the Project entitled "Tweets And Telugu SentiWordNet Based On Sentimental Analysis Using NLP" is a bonafide Work Carried out by D. Jhansi (19KN1A0535), A. Siva Naga Manikanta Sai (19KN1A0505), J. VaraPrasad (19KN1A0560) and G. Devi Prasanna Kumar Reddy (19KN1A0549) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide

Dr.G.SHOBHANA

Professor, Department of CSE

Head of the Department

(Dr. D.SUNEETHA)

Professor, HOD of CSE Department

EXTERNAL EXAMINER



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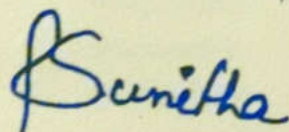
Certificate

This is to certify that the Project entitled " Big Mart Sales Prediction Using Data Analysis " is a bonafide Work Carried out by N.Harika (19KN1A0557), G.Kundana Sai (19KN1A0543), D.Ranjitha (19KN1A0536), CH.Sathwika (19KN1A0529) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.


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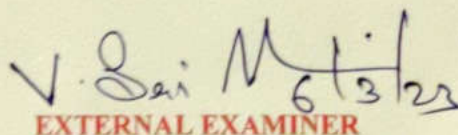
(Dr.K.V.SAMBASIVARAO)

Professor, Department of CSE



Head of the Department

(DR. D.SUNEETHA)


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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled "Agricultural land image classification using KNN and compare with RNN" is a bonafide Work Carried out by Ch.Vamsi Krishna(19KN1A0528), Ch.Geetha Bhavani(19KN1A0527),B.Poojitha(19KN1A0515),A.Akash(19KN1A0506) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide

(Dr. Y. SUSHMA)

Professor, CSE Department

Head of the Department

(Dr. D.SUNEETHA)

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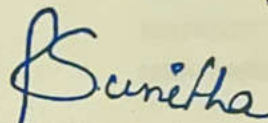


Certificate

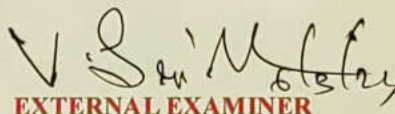
This is to certify that the Project entitled “**PREDICTION AND ANALYSIS OF FUEL CONSUMPTION IN HEAVY VEHICLES**” is a bonafide Work Carried out by **B. Bhargava Ram (19KN1A0514)**, **G. Naga sri manju (19KN1A0544)**, **CH. Rechal sriya (19KN1A0531)** and **G. Chandra sekhar (20KN5A0502)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of NRI INSTITUTE OF TECHNOLOGY during the year 2022-2023.



Project Guide
(Mr. Y.N.S SATYANARAYANA)
Assistant Professor, Department of CSE



Head of the Department
(Dr. D. SUNEETHA)



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Certificate

This is to certify that the Project entitled "Tagging Questions Automatically Through Multilabel Classification" is a bonafide Work Carried out by CH. Pujitha (19KN1A0530), G. Chandra Sai (19KN1A0551), G. Durga Sravani (19KN1A0546) and K. Ajay Kumar Reddy (20KN5A0505) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide
(DR. CH. SURYA KIRAN)
Professor, Department of CSE

Head of the Department
(DR. D. SUNEETHA)

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PIN: 521212, A.P, India



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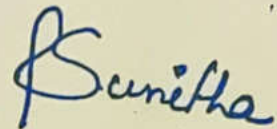
This is to certify that the Project entitled “**Research on recognition of crop disease and insect pests based on Deep Learning in Harsh Environment**” is a bonafide Work Carried out by **A.Tejaswi (19KN1A0507), A.Suresh (19KN1A0504), B.Pravalika (19KN1A0521) and D.Sandeep Kumar (19KN1A0537)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.



Project Guide

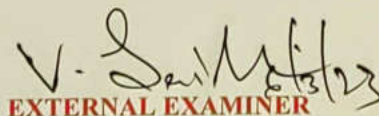
(Mr.P.SRINIVAS RAO)

Professor, Department of CSE



Head of the Department

(DR. D.SUNEETHA)



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Certificate

This is to certify that the Project entitled "To Predict Plant Growth and Yield in the Greenhouse Environment" is a bonafide Work out by J.Meghana (19KN1A0559), A.Prameela Rani (19KN1A0501), B.Komali (19KN1A0518), I.Pranitha (20KN5A0503) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of NRI Institute of Technology during the year 2022-2023.

Project Guide
(J.SIVA SANKAR)

Associate Professor, Department of CSE

Head of the Department
(Dr. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled “OBJECT DETECTION USING MACHINE LEARNING” is a bonafide work carried out by B.Lohita Priya(19KN1A0512), B.GopiChand(19KN1A0517) and A.VenkayyaSwamy (19KN1A0509) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, during the year 2022-2023.

Project Guide

(CH.GANESH KUMAR)

Assistant Professor, Department of CSE

Head of the Department

(DR. D.SUNEETHA)

EXTERNAL EXAMINER

NRI INSTITUTE OF TECHNOLOGY

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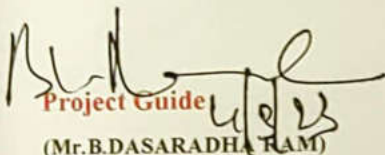


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Certificate

This is to certify that the Project entitled "Emotion Recognition Through Speech" is a bonafide Work Carried out by A.Lahari(19KN1A0503), G.Sasi priyanka(19KN1A0555), B.Sudarshan (19KN1A0513), B.Leela Madhava Rao(20KN5A0501) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.


Project Guide
(Mr. B. DASARADHA TAM)

Associate Professor, CSE Department


Head of the Department
(Dr. D. SUNEETHA)


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(Via) Nunna, Agiripalli (M), Krishna Dist, PIN: 521212, A.P, India



Certificate

This is to certify that the Project entitled “Skin Disease Detection And Classification Using Deep learning Algorithms” is a bonafide Work Carried out by CH.Shivani (19KN1A0533), B.Tejaswi (19KN1A0519), B.Naveen(19KN1A0522) & CH.Sandeep(19KN1A0525) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide

(MRS.CH.SANTHA KUMARI)

Assistant Professor, CSE Department

Head of the Department

(DR. D.SUNEETHA)

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URL: www.nrfit.edu.in, email: principal@nrfit.edu.in, Mobile: + 91 8333882444



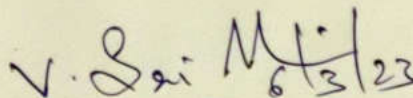
Certificate

This is to certify that the Project entitled "A Detection of Non-Helmet Riders and Extraction of License Plate Number Using Yolo and OCR Method" is a bonafide Work Carried out by Karthik Bhandary(19KN1A0564), B. Koushik(19KN1A0511), Illeeyas Beig(19kn1a0558), K. Hemanth Kumar(20kn5a0506) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2019-2020.


Project Guide
(T. REVATHI)

Assistant Professor, Department of CSE


Head of the Department
(DR. D.SUNEETHA)


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Nunna, Agiripalli (M), Krishna Dist, PIN: 521212, A.P, India



Certificate

This is to certify that the Project entitled “Implementation of heart disease risk prediction using Machine learning” is a bonafide Work Carried out by CH.G.M.Pravallika(19KN1A0524), J.Vennela(19KN1A0561),D.Chandra Sekhar(19KN1A0540),A.Mydhili(19KN1A0565) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide

(DR. D.SUNEETHA)

HOD&Professor,CSE Department

Head of the Department

(DR. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled "DEEP TEXTURE FEATURES FOR ROBUST FACE SPOOFING DETECTION" is a bonafide Work Carried out by A.JAYANTH BABU(19KN1A0502), D. LIKHITHA (19KN1A0538), G.J J SNEHITH(19KN1A0554) and A.NAVYA (19KN1A0508) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of JawaharlalNehru Technological University Kakinada, Kakinada during the year 2022- 2023.

Project Guide
(Dr.D.SUNEETHA)
HOD& Professor, CSE Department

Head of the Department
(Dr. D.SUNEETHA)

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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled "**Brain Tumor Detection using Machine Learning**" is a bonafide Work Carried out by **G.MRUDULA (19KN1A0553)**, **G.BHARADWAJ REDDY (19KN1A0516)**, **G.MAHESWARI (19KN1A0552)**, **J.ANJANEYULU (20KN5A0504)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Project Guide

S.NAHIDA

Associate Professor, Department of CSE

Head of the Department

(DR.D.SUNEETHA)

EXTERNAL EXAMINER



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Certificate

This is to certify that the Project entitled “Predicting The Reviews Of Restaurant Using Natural Language Processing Technique” is a Bonafide Work Carried out by G. Aasritha (19KN1A0548), CH. Venkata Jayanth Kumar (19KN1A0523), E. Ramalingeswara Chandra Mouli (19KN1A0542) and B. JayaKumar (19KN1A0562) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide
(B.VENUGOPAL)

Associate Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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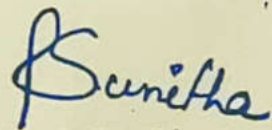
Certificate

This is to certify that the Project entitled “**Bag of discriminative words(BODW) Representation via Topic Modeling**” is a bonafide work carried out by D. Bhargavi (19KN1A0541), G. Rupasree (19KN1A0556), D. John Daniel(19KN1A0539) and G.D.N.V. Prasad(19KN1A0534) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada** during the year 2022-2023.

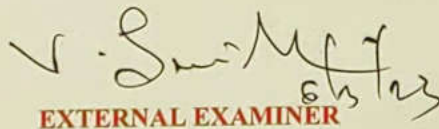


Project Guide
(CH.SANTHI)

Assistant Professor, Department of CSE



Head of the Department
(DR. D.SUNEETHA)



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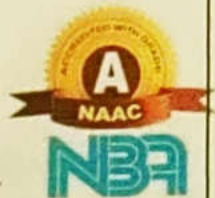


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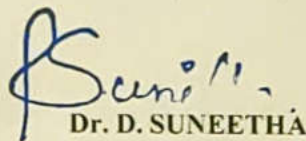


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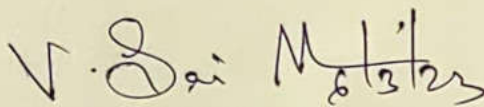
This is to certify that the Project entitled "ANALYZE THE IMPACT OF PREDICTED OVERALL RATING ON CONTEXTUAL SEGMENTS IN CONTEXT-AWARE RECOMMENDER SYSTEMS USING MACHINE LEARNING TECHNIQUES" is a bonafide work carried out by **CH.LAVANYA (19KN1A0526), B.ROHITH KUMAR (19KN1A0510), G.NANDINI (19KN1A0547) and K.SUNNY PETER (19KN1A0563)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of JawaharlalNehru Technological University Kakinada, Kakinada** during the year 2022- 2023.


Mr. CH.V.MURALI KRISHNA

Project Guide


Dr. D. SUNEETHA

Head of the Department


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Certificate

This is to certify that the Project entitled “**Forensic Scanner Identification Using Machine Learning**” is a bonafide Work Carried out By **B.Kavyasri(19KN1A0520), G. A K N Venkata Sainadh(19KN1A0550) G.Tejaswini Nivedhitha(19KN1A0545), CH.Kowshik(19KN1A0532)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of NRI INSTITUTE OF TECHNOLOGY** during the year 2022-2023.

Project Guide

(P.NARENDRA BABU)

Associate Professor, Department of CSE

Head of the Department

(Dr. D.SUNEETHA)

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PIN: 521212, A.P, India.

Certificate

This is to certify that the Project entitled “**Suicidal Tendency
Detection using Machine Learning**” is a bonafide Work Carried out by
**M.Tejaswini(19KN1A05A3), M.Ajay (19KN1A05B9),MD.Abdul wajid
(19KN1A05B6)** in partial fulfillment for the award of degree of Bachelor of
Technology in **Computer Science and Engineering** of **Jawaharlal Nehru
Technological University Kakinada, Kakinada** during the year 2019-2023.

**Project Guide
(B.JYOSTHNA)**

Assistant Professor, Department of CSE

**Head of the Department
(Dr. D.SUNEETHA)**

HOD&Professor,CSE Department

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Certificate

This is to certify that the Project entitled “**Offensive language detection in tweets using various regression and classifier algorithms**” is a bonafide Work Carried out by **M.Jaya Lakshmi devi (19KN1A05C2), K.Triveni (19KN1A0591), M.Prashanth (20KN5A0511) and M.Pradeep (19KN1A05B1)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2019-2023.

Project Guide
(DR.CH.SURYA KIRAN)
Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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CERTIFICATE

This is to certify that project work entitled “**ROBUST MALWARE DETECTION FOR IOT USING DEEP EIGEN SPACE LEARNING** ” is a bonafide work carried out by K.YASSASRI(19KN1A0568),K.KAVYA(19KN1A0593),M.RAHUL(19KN1A05A6),K.LATHAS RI

(19KN1A0596) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023, under our guidance and supervision and it has been found worthy of acceptance according to the requirement of the university.

Project Guide
(M. Lakshmi Durga)
Assistant Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled "SMART ATTENDANCE MANAGEMENT SYSTEM WITH FACE RECOGNITION USING DEEP LEARNING" is a bonafide work carried out by K. S. R. RAJESWARI DEVI (19KN1A0594), M. SAI RAM (19KN1A0599) and M. KAVYA SRI LAKSHMI (19KN1A05C1) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022- 2023.

[Mr. P. NARENDRA BABU]

Project Guide

[Dr. D. SUNEETHA]

Head of the Department

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Certificate

This is to certify that the Project entitled “ANALYSIS OF WOMEN SAFTEY IN INDIA USING MACHINE LEARNING ON TWEETS” is a bonafide work carried out by M.PRATHYUSHA(19KN1A05C5),MOHAMMADSUFIYA(19KN1A05B5),K.LIKITH A CHOWDARY(19KN1A0576),M.SASANK(19KN1A05A4) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022- 2023.

Mrs. Ch. Santha Kumari

Project Guide

Dr D. SUNEETHA

Head of the Department

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Certificate

This is to certify that the Project entitled “DETECTING AT-RISK STUDENTS WITH EARLY INTERVENTIONS USING MACHINE LEARNING TECHNIQUES” is a Bonafede work carried out by K.TEJASWINI (19KN1A0578), M. SANKAR (19KN1A05A7), M.KIRAN(19KN1A05A0) and K.AKHIL (19KN1A0569) in partial fulfillment for the award degree of Bachelor of Technology in Computer Science and Engineering Of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide
Dr.D.SUNEETHA
Professor & HOD, CSE Department

Head of the Department
Dr.D.SUNEETHA

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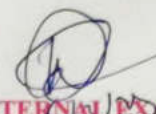
This is to certify that the Project entitled "DIET RECOMMENDATION SYSTEM USING SUPERVISED MACHINE LEARNING" is a bonafide work carried out by K.NAVYA (19KN1A0580), K. SAI SRIKAR PRAKASH (19KN1A0587) K. SIVAJI (19KN1A0588) and M. BOGESWAR SAI (19KN1A05C0) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022- 2023.


Dr. K V SAMBASIVA RAO

Project Guide


Dr D. SUNEETHA

Head of the Department


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Certificate

This is to certify that the Project entitled "MISSING CHILD IDENTIFICATION SYSTEM USING DEEP LEARNING AND MULTI CLASS SVM" is a bonafide work carried out by K.SESHA SAI SREE(19KN1A0582), M.V.D.A.MAMATHA (19KN1A05B1) , M.ANIL(19KN1A05A2) and M. BHUVAN (19KN1A05C4) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Mr. P.SRINIVASA RAO

Project Guide

Dr D. SUNEETHA

Head of the Department

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Certificate

This is to certify that the Project entitled "DETECTION OF EMOTIONS IN CATEGORICAL TWEETS USING SVM AND NAÏVE BAYES ALGORITHM" is a Bonafede work carried out by J.KEERTHANA(19KN1A0567),M.RAMU(19KN1A05B3) N.SALSOWMYA(19KN1A05C8) and K.VASUNDHARA(20KN5A0507) in partial fulfilment for the award of degree of Bachelor of Technology in Computer Science and Engineering of JawaharlalNehru Technological University Kakinada, Kakinada during the year 2022- 2023.


Dr.G.SHOBANA

Project Guide


Dr.D.SUNEETHA

Head of the Department


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Certificate

This is to certify that the Project entitled "DETECTION OF LUNG CANCER FROM CT IMAGE USING SVM CLASSIFICATION AND COMPARE SURVIVAL RATE OF PATIENTS USING 3D CONVOLUTIONAL NEURAL NETWORK(CNN) ON LUNG CANCER NODULES DATA SET " is a bonafide work carried out by N.SAI RUSHITHA (19KN1A05C7), K.TULASI (19KN1A0589), K.GOWTHAM (19KN1A0586), K.NAGA SIVA LEELA (20KN5A0508), in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Project Guide

(Dr. Y.SUSHMA)
Professor, CSE Department

Head of the Department

(Dr.D.SUNEETHA)
Professor, Head of CSE Department

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URL: www.nrjit.edu.in, email: principal@nrjit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the project entitled “BAT : Deep Learning Methods on Network Intrusion Detection Using NSL-KDD Dataset” is bonafide Work Carried out by Md. Afrin(19KN1A05B4), K. Ranga Babu (19KN1A0581), K. Yashwanth Roshan (19KN1A0579) and N. Kundan Krishna(19KN1A05C6) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022- 2023.

Project Guide

(Mr. B. VENUGOPAL)

Associate Professor, Department of CSE

Head of the Department

(DR. D. SUNEETHA)

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Certificate

This is to certify that the Project entitled "Detection Of Cyber Attacks in Network Using Machine Learning Techniques" is a bonafide Work Carried out by N.Sushma(19KN1A05C9), K.Devaraj(19KN1A0590), J.Keshitha(19KN1A0566) and M.pardhu (20KN5A0510) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2019-2023.

Project Guide
(Mrs.S.NAHIDA)

Assoc.Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled “**PREDICTING THE SEVERITY OF AN AIRPLANE CRASH USING MACHINE LEARNING**” is a bonafide work carried out by **M. LAKSHMI TULASI (19KN1A0595), K. KAVYA SRI (19KN1A0577) M. SRIKAR (19KN1A05A1) and L. BHANU PRAKASH (19KN1A0597)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022- 2023.


Mr. B DASARATHA RAM
Project Guide 4/3/23


Dr D. SUNEETHA
Head of the Department


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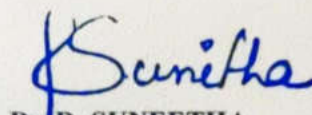


Certificate

This is to certify that the Project entitled "A STUDY ON THE EFFECT OF ADJUSTED COSINE SIMILARITY WITH ITEM BASED COLLABORATIVE FILTERING ON CONTEXT AWARE RECOMMENDED SYSTEM" is a bonafidework carried out by K.BHARATH SAI VARMA (19KN1A0570), K.YUVRAJ(19KN1A0583),K.PUSHPA LATHA(19KN1A0584) and M.SUDHIR HARWAY(19KN1A05A9) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of JawaharlalNehru Technological University Kakinada, Kakinada during the year2022- 2023 .


Mr. CH.V.MURALI KRISHNA

Project Guide


Dr.D. SUNEETHA

Head of the Department


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Certificate

This is to certify that the Project entitled “Malware Detection using Machine Learning & Performance Evaluation” is a bonafide Work Carried out by K.Anjana Kavya Sri (19KN1A0585), MD.Rehana Sulthana (19KN1A05B7), M.Venkata Keerthi(19KN1A05B0) and K.Sai Charan Gupta(19KN1A0592) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.

Project Guide

(Dr. D. SUNEETHA)

Professor, HOD, Department of CSE

Head of the Department

(Dr. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled "Spammer Detection and Fake User Identification on Social Networks" is a bonafide Work Carried out by K.Mani Chandana(19KN1A0575), M.Darahaasa(19KN1A05A8),P.Darshini Ratna Chowdary (20KN5A0512) and M.Yeshwanth (19KN1A05B2) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2019-2023.



Project Guide
Dr. D. SUNEETHA

Professor, HOD, Department of CSE



Head of the Department
Dr. D. SUNEETHA



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Certificate

This is to certify that the Project entitled "CLASSIFICATION OF CUSTOMERS FOR MARKETING USING MACHINE LEARNING" is a bonafide work carried out by K. MONIKA (19KN1A0572), M. SRI VAISHNAVI (20KN5A0509), K.MURALI (19KN1A05C3) and M. RAJ KUMAR(19KN1A05A5) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022- 2023.

Mr. A. TARAK RAM

Project Guide

Dr D. SUNEETHA

Head of the Department

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(Via) Nunna, Agiripalli (M), Krishna Dist, PIN: 521212, A.P, India



Certificate

This is to certify that the Project entitled “**Vehicle Pattern Recognition using Machine & Deep Learning to Predict Car Model**” is abonafile Work Carried out by K.Yamini (19KN1A0574),K.Praneeth Krishna (19KN1A0571) and K.Yeswitha (19KN1A0573) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year(2022-2023).

Project Guide
(V.ARUNA)

Assistant Professor, Department of CSE

Head of the Department
(Dr. D.SUNEETHA)

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Certificate

This is to certify that the Project entitled as "A Novel Approach for A New Mechanism in Network Intrusion Detection System" is a bonafide work carried out by P. Renuka Devi (19KN1A05D6), R. Satya (19KN1A05F3), V. Sai Ramya (19KN1A05H8) and Sk. Feroz (20KN5A0514) in partial fulfilment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of NRI Institute of Technology during the year 2022-2023.

Project Guide

(P. NARENDRA BABU)

Associate Professor, Department of CSE

Head Of the Department

(Dr. D. SUNEETHA)

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A.P, India.

Certificate

This is to certify that the Project entitled as "A DRIVING DECISION STRATEGY(DDS) BASED ON MACHINE LEARNING FOR AN AUTONOMOUS VEHICLE" is a bonafide work carried out by V.Jahnavi Priyanka (19KN1A05I7) ,R.Shiny grace(19KN1A05G3), Y.Yashwanth ganesh reddy(19KN1A05J2), Sk.Nagur Basha(19KN1A05G0) in partial fulfilment for the award of degree of Bachelor of Technology in Computer Science and Engineering of NRI Institute of Technology during the year 2022-2023.

Project Guide

(MR. Y.N.S.SATYANARAYANA)

Assistant Professor, Department of CSE

Head Of the Department

(DR. D. SUNEETHA)

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Certificate

This is to certify that the Project entitled “**Behaviour Analysis Of Mentally Affected People**” is a bonafide Work Carried out by T.D.S.Manvitha(20KN5A0517),V.Supriya(19KN1A0514), SK.Fayaz(19KN1A05F9) and B.Ratna Sudha(19KN1A05F4) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Project Guide
(DR. D.SUNEETHA)
Professor(HOD), Department of CSE

Head of the Department
(DR. D.SUNEETHA)

EXTERNAL EXAMINER

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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled "**CRIME DATA ANALYSIS AND PREDICTION USING MACHINE LEARNING**" is a bonafide Work Carried out by P. Harshitha (19KN1A05E6), S. Jhansi Sri (19KN1A05F6), K. Sri Lasya (19KN1A05D0) and P. Sai Pavan (19KN1A05E9) in partial fulfilment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2019- 2023.

Project Guide

(DR. D. SUNEETHA)

HOD&PROFESSOR OF CSE DEPARTMENT

Head of the Department

(DR. D.SUNEETHA)

EXTERNAL EXAMINER



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Certificate

This is to certify that the Project entitled “**Detection of Illicit Messages and Images on Social Media**” is a bonafide Work Carried out by P.Jagathi (19KN1A05D8), P.Meghana (19KN1A05E3), S.Suresh (19KN1A05G5) and Y.Satish (19KN1A05J1) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

T. Syama Sree

Project Guide

(T.Syama Sree)

Assistant Professor, Department of CSE

D. Suneetha

Head of the Department

(DR. D.SUNEETHA)

M. S. Sree
EXTERNAL EXAMINER



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Certificate

This is to certify that the Project entitled “ PREVENTION OF AN ACCIDENT FROM DROWSINESS AND DRIVER SAFETY USING DEEP LEARNING” is a bonafide work carried out by S.VANDANA (19KN1A05F5), S.N.V.SIVA GOPI (19KN1A05G7) and P.GANESH (19KN1A05E8) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Project Guide

(Mrs.S.SINDHURA)

Assistant Professor, Department of CSE

Head of the Department

(Dr. D. SUNEETHA)

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Certificate

This is to certify that the Project entitled "DEEP LEARNING BASED OBJECT DETECTION AND RECOGNITION FRAMEWORK FOR VISUALLY IMPAIRED" is a bonafide Work Carried out by V.Madhu Sri Vidhya (19KN1A05I3), Rahul.K (19KN1A05F2) and Sk.Sohel (19KN1A05G2) in partial fulfilment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2023.


Project Guide

(Mr.K.PRATAP JOSHI)

Associate Professor, Department of CSE


Head of the Department
(DR.D.SUNEETHA)


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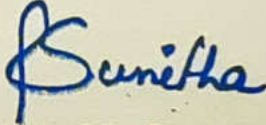


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India, Pin: 521 212
URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: +91 8333882444

Certificate

This is to certify that the Project entitled "ANALYSIS OF STOCK PRICE PREDICTION USING LSTM" is a bonafide Work Carried out by **Mourya Teja.V(19KN1A05D1)**, **S. Deepthi(19KN1A05G4)**, **S. Rakesh(19KN1A05H1)** and **V. Sri Madhuri(19KN1A05I2)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **NRI Institute of Technology** during the year 2022-2023.


4/3/2023
Project Guide
(DR.K.V. SAMBASIVA RAO)
Dean, Department of CSE


Head of the Department
(DR.D. SUNEETHA)


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Certificate

This is to certify that the Project entitled “**HUMAN SUSPICIOUS ACTIVITY DETECTION SYSTEM USING MACHINE LEARNING FOR VIDEO SURVEILLANCE**” is a bonafide Work Carried out by Pulivarthi Keerthana(19KN1A05F0), Y. Siva Mahesh(19KN1A05I9), V. Saranya Sree(19KN1A05H9), and Shaik Dehtaj (20KN5A0513) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-23.

Project Guide
(DR. D. SUNEETHA)
Hod & Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

M.S. Rao
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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled “**CHARACTERIZING AND PREDICTING EARLY REVIEWERS FOR EFFECTIVE PRODUCT MARKETING ON E-COMMERCE WEBSITES**” is a bonafide Work Carried out by **Y.HAMARESH SAI VARMA (19KN1A05J3)**, **P. HARSHITHA (19KN1A05E2)** and **SK.SUBHANBEE (20KN5A0516)** in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

S. Kavitha
Project Guide
(S.KAVITHA)

Assistant Professor, Department of CSE

D. Suneetha

Head of the Department
(DR. D.SUNEETHA)

M.S. K...
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Certificate

This is to certify that the Project ENTITLED "SEMI-SUPERVISED MACHINE LEARNING APPROACH FOR EFFECTIVE AND AUTOMATIC DDOS DETECTION" is a bonafide Work Carried out by P.Naga Lakshmi(19KN1A05E0), T.Anusha(19KN1A05H7), SK.Basha(19KN1A05F8) and V. Sai Venkat(19KN1A05I0) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2019-2023.


Project Guide
(T. REVATHI)

Assistant Professor, Department of CSE



Head of the Department
(DR. D. SUNEETHA)


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Certificate

This is to certify that the Project entitled "Diabetes Prediction Using Machine Learning Algorithms" is a bonafide Work Carried out by S.Harish(19KN1A05H2), P.Rakesh(19KN1A05E4) and V.Bhargav(19KN1A05I1) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2019-2023.

Project Guide
(DR.D.SUNEETHA)
Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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This is to certify that the Project entitled "**Collaborative Filtering Of Movie Recommendation System**" is a bonafide Work Carried out by N.Durgaharshitha (19KN1A05D2), N.Kavya (19KN1A05D5), Y.Gayathri (20KN5A0518) and N.Ramakrishna (19KN1A05D3) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2022-2023.

Project Guide
(Mr. B. VENUGOPAL)

Associate Professor, Department of CSE

Head of the Department
(DR. D.SUNEETHA)

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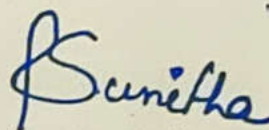
Certificate

This is to certify that the Project entitled "A Novel Approach For Genetic Algorithm Based Optimized Feature Selection For Detecting Malware In Android Using Machine Learning" is a bonafide Work Carried out by P.Vinod (19KN1A05D7), S.V.N.Viswesh (19KN1A05H3), SD.Afzal Parvez (19KN1A05H4), Y.Venkata Subbarao (19KN1A05I8) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of NRI Institute of Technology during the year 2022-2023.



Project Guide

(Mrs. S. NAHIDA)
Associate Professor, Department of CSE



Head of the Department
(DR. D.SUNEETHA)



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Certificate

This is to certify that the Project entitled "SOFTWARE DEFECT ESTIMATION USING DISTINCT LEARNING ALGORITHMS" is a bonafide work carried out by S. DIVYASRI (19KN1A05G9), Y. RAVI (19KN1A05J0), P. DURGA BHAVANI (19KN1A05D9) and P. ROHITH (19KN1A05E5) in partial fulfillment for the award of degree of Bachelor of Technology in **Computer Science and Engineering** of NRI INSTITUTE OF TECHNOLOGY during the year 2022-2023.

Project Guide

DR.CH. SURYA KIRAN

(Professor, Department of CSE)

Head of the Department

DR. D. SUNEETHA

M.S. Rao
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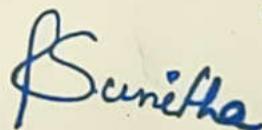
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This is to certify that the Project entitled as "Convolutional Neural Network Based Text Steganalysis" is a bonafide work carried out by S. Naga Niharika (19KN1A05G8),SK.Reshma(19KN1A05G1),T. Sethu Vinay (19KN1A05H6) and P. Likitha (19KN1A05E1) in partial fulfilment for the award of degree of Bachelor of Technology in Computer Science and Engineering of NRI Institute of Technology during the year 2022-2023.


Project Guide
(CH. Santha Kumari)

Assistant Professor, Department of CSE



Head Of the Department
(Dr. D. Suneetha)


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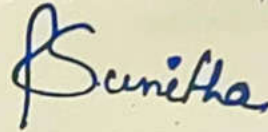


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This is to certify that the Project entitled "A Study on impact of Contextual Segments in the Context aware Recommender systems using Regularization techniques" is a bonafide work by N.MANIKRISHNA(19KN1A05D4), V.GNANA SAI RAM(19KN1A05I6), P.NITHINCHOWDARY(19KN1A05E7), P.SUPRIYA(19KN1A05F1) in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022- 2023 .


Mr. CH.V. MURALI KRISHNA

Project Guide



Dr. D. SUNEETHA

Head of the Department


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A.P,India

Certificate

This is to certify that the Project entitled “**Data Poison Detection Schemes for Distributed Machine Learning**” is a bonafide work carried out by **S.Purnima Sudha(19KN1A05H0), V.Nikitha(19KN1A05I5), T.Sai Sankeerthana (19KN1A05H5) and Sk.Salma(20KN5A0515)** in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering of NRI Institute of Technology during the year 2022-2023.

Project Guide

(Dr. D. Suneetha)

Hod & Professor, Department of CSE

Head Of the Department

(Dr. D. Suneetha)

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Ph : 0866 - 2469666 | e-mail : nrhitech@rediffmail.com
Website : www.nriit.edu.in

Department of Information Technology Certificate


This is to certify that the project work entitled "MISSING VALUES PREDICTION USING CART" is a bonafide record work done by


**D.SRI CHARAN
M.SUPRIYA**

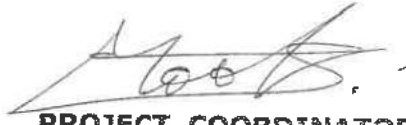
**(20KN5A1201)
(19KNA1222)**

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The results embodied in this Project report have not been submitted in any University or Organization for the award of any degree or diploma.


**INTERNAL GUIDE
Mr. CH. KIRAN BABU,
ASSISTANT PROFESSOR**


**HEAD OF THE DEPARTMENT
Dr. M. CHAITANYA KISHORE REDDY,
PROFESSOR & HOD**


**PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
PROFESSOR**


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Ph : 0866 - 2469666 | e-mail : nrihitech@rediffmail.com
Website : www.nriit.edu.in

Department of Information Technology

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done by

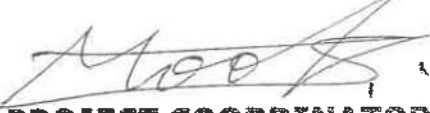
M.BHAVYA SRI
SYED RIFATH
ALAN TULLY

(19KN1A1229)
(19KN1A1245)
(19KN1A1202)

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INTERNAL GUIDE
Mr. B. NAGARAJU,
ASSISTANT PROFESSOR


PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
PROFESSOR


HEAD OF THE DEPARTMENT
Dr. M. CHAITANYA KISHORE REDDY,
PROFESSOR & HOD


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Website : www.nriit.edu.in

Department of Information Technology

Certificate

This is to certify that the project work entitled
"HATE SPEECH DETECTION SYSTEM" *is a bonafide*
record workdone by

MD.NIHAAL

(19KN1A1226)

T.SAMSON

(19KN1A1251)

D.YAMINI

(19KN1A1209)

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INTERNAL GUIDE
Mr.N.NARASIMHA RAO,
ASSISTANT PROFESSOR

HEAD OF THE DEPARTMENT
Dr.M.CHAITANYA KISHORE REDDY,
PROFESSOR & HOD

PROJECT COORDINATOR
Dr.SK. MAHABOOB BASHA,
PROFESSOR

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Ph : 0866 – 2469666 | e-mail : nrihitech@rediffmail.com
Website : www.nriit.edu.in

Department of Information Technology


Certificate


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"DETECTION OF HYPOCRISY IN CREDIT CARDS USING MACHINE
LEARNING ALGORITHMS"
is a bonafide record work done by

D.DURGA PRASAD	(19KN1A1210)
B.RAM PRATHAP	(19KN1A1203)
Y.MONIKA	(19KN1A1260)

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INTERNAL GUIDE
Mr. B. NAGARAJU
ASSISTANT PROFESSOR


PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA
PROFESSOR


HEAD OF THE DEPARTMENT
Dr. M. CHAITANYA KISHORE REDDY,
PROFESSOR & HOD


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Website : www.nriit.edu.in

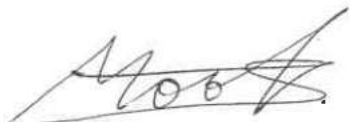
Department of Information Technology Certificate

This is to certify that the project work entitled
"RECOMMENDED HYBRID SYSTEM FOR PRODUCT MANUFACTURER"
is a bonafide record work done by

T. CHERRY PEARS	(19KN1A1206)
K. MURARI	(19KN1A1216)
Y. AKHIL	(19KN1A1264)

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The results embodied in this Project report have not been submitted in any University or Organization for the award of any degree or diploma.


INTERNAL GUIDE
Dr. SK. MAHABOOB BASHA,
PROFESSOR


HEAD OF THE DEPARTMENT
Dr. M. CHAITANYA KISHORE REDDY,
PROFESSOR & HOD


PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
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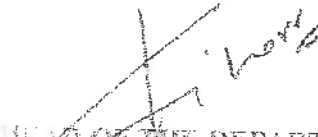
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PROFESSOR & HOD


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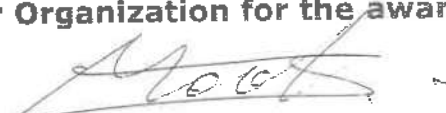
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Dr.M.CHAITANYA KISHORE REDDY,
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PROFESSOR & HOD


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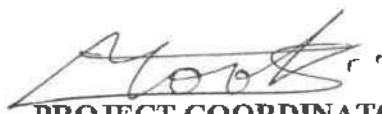
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PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
PROFESSOR


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Dr. M. CHAITANYA KISHORE REDDY,
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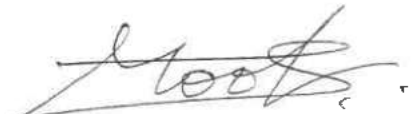
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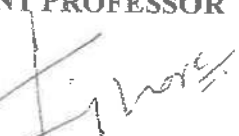
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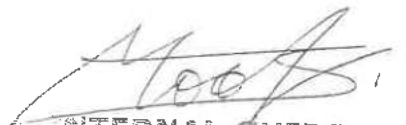
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E.KEERTHI PRIYA

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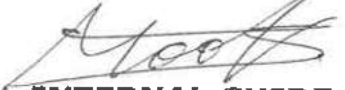
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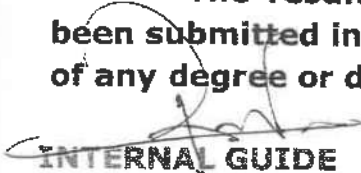
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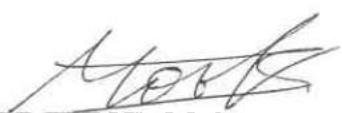
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INTERNAL GUIDE
Dr.SK.MAHABOOB BASHA,
PROFESSOR


HEAD OF DEPARTMENT
Dr.M.CHAITANYA KISHORE REDDY,
PROFESSOR & HOD


PROJECT COORDINATOR
Mr. SK. MAHABOOB BASHA,
PROFESSOR


EXTERNAL EXAMINER



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Ph: 0866-2469666|e-mail:nrihitech@rediffmail.com Website:www.nriit.edu.in

Department of Information Technology

Certificate


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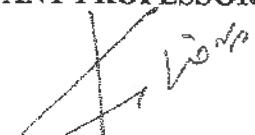
T. NAVYA SREE	(19KN1A1247)
T. SANKARBABU	(19KN1A1246)
P. YASWANTH KUMAR	(19KN1A1236)

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Mr. A. GOPALA KRISHNA,
ASSISTANT PROFESSOR


PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
PROFESSOR


HEAD OF THE DEPARTMENT
Dr. M. CHAITANYA KISHORE REDDY,
HOD&DEAN


EXTERNAL EXAMINER



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Website : www.nriit.edu.in

Department of Information Technology

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SHAIK ZEENATHUNNISA	(19KN1A1244)
M.NAVYA	(19KN1A1223)
A.BHANU PRAKASH	(19KN1A1201)

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INTERNAL GUIDE
Dr.M.CHAITANYA KISHORE REDDY,
PROFESSOR & HOD

PROJECT COORDINATOR
Dr. SK. MAHABOOB BASHA,
PROFESSOR

HEAD OF THE DEPARTMENT
Dr.M.CHAITANYA KISHORE REDDY,
PROFESSOR & HOD

EXTERNAL EXAMINER



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This is to certify this ~~Ms~~ project entitled "A STUDY ON RECRUITMENT AND SELECTON IN GNV IT SOLUTIONS IN VIJAYAWADA" is the bonafide Work done by **AANUSHA RANI** in partial fulfillment of the requirements for the award of the degree of **Master** of Business Administration by **Jawaharlal Nehru Technological University, Kakinada** during the year 2022.

Dr. K. CHINNA KRISHNA

Professor

Project Guide

DR. CH. HEMA VENKATA SIVA SREE

Professor & HOD

Head of the Department

14/9/23 -

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CERTIFICATE

This is to certify this major project entitle "A STUDY ON PERFORMANCE APPRAISAL" with reference to BOT DEFENSE IT SOLUTIONS PVT LTD ", is the bonafide Work done by BOPPANA.KEERTHANA in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2023.

Dr. CH. HEMA VENKATA SIVA SREE

PROJECT GUIDE

Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

14/9/23.



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This is to certify this major project entitle "A STUDY ON EMPLOYEE JOB SATISFACTION " with reference to BOT DEFENSE IT SOLUTIONS PVT LTD ", is the bonafide Work done by BORRA.HARSHA VARDHAN in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022- 2023.


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Dr. CH. HEMA VENKATA SIVA SREE

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HEAD OF THE DEPARTMENT

14/7/23

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This is to certify this major project entitle "TRAINING AND DEVELOPMENT IN KUSALAVA INTERNATIONAL LIMITED, ADAVINEKKALAM" is the bonafide Work done by CHEKKIRALA. MOUNIKA in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022- 2023.

Dr. K. CHINNI KRISHNA

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Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINAR



CERTIFICATE

This is to certify this major project entitle "CUSTOMER AWARENESS ABOUT INNOVATION ACTIVITIES OF KRISHNA DISTRICT CO-OPRETIVE CENTRAL BANK" is the bonafide Work done by CHENU.SRINU in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.


Miss. G. DHANA LAKSHMI

PROJECT GUID


CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT


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This is to certify this major project entitle "FINANCIAL STATEMENT ANALYSIS IN KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OP UNION LTD, VIJAYAWADA", is the bonafide Work done by CHIMATA. YOGA NAVYA SRI in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2023.

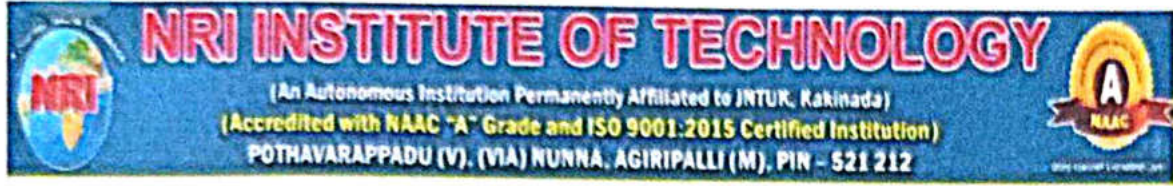
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This is to certified the project work entitled "PROFITABILITY ANALYSIS WITH REFERENCE TO KRISHNA DISTRICT CO-OPERATIVE CENTRAL BANK", is a bonafide work done by D.CHAITANYA KUMAR bearing roll number 21KNIE0009 in Partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University Kakinada of the year 2022-2023.

P. Manasa
Miss. P. MANASA

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Ch. Hema Venkata Siva Sree
Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

External Examiner
EXTERNAL EXAMINAR



CERTIFICATE

This is to certify this *Master's* project entitled "A STUDY ON TRAINING AND DEVELOPMENT IN GNV IT SOLUTIONS IN VIJAYAWADA" is the bonafide Work done by GANDATI DURGA TARUN in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022.

P. Manasa
Mrs. P. MANASA

Assistant Professor
Project Guide

Ch. Hema Venkata Siva Sree
DR. CH. HEMA VENKATA SIVA SREE

Professor & HOD
Head of the Department

P. Sree
EXTERNAL EXAMINER 14/9/23.



CERTIFICATE

This is to certify this major project entitle "FUNDS FLOW ANALYSIS" WITH REFERENCE TO "KRISHNA DISTRICT MILK PRODUCERS MUTUALLY AIDED CO-OPERATIVE UNION LIMITED", is the bonafide Work done by GANTA.PADMAVATHI in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.


Dr. K. CHINNI KRISHNA

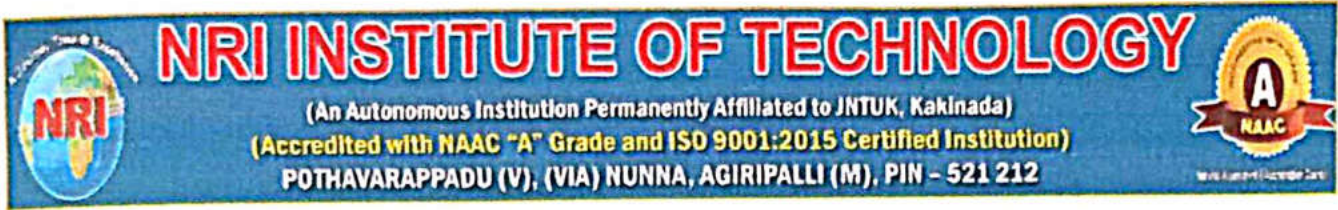
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HEAD OF THE DEPARTMENT



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CERTIFICATE

This is to certified that the main project work entitled **EMPLOYEE SATISFACTION IN MOHAN SPINTEX INDIA LIMITED**, is a benefited work done by **G. LAKSHMI DURGA** bearing roll number **21KN1E0012** in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada**

P. Manasa
P. MANASA

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Dr.CH. HEMA VENKATA SIVA SREE

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P. Manasa
14/7/23.



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This is to certify this major project entitle “ **INVENTORY MANAGEMENT in KRISHNA DISTRICT MILK PRODUCER’S MUTUALLY AIDED CO-OP UNION LTD**”, is the bonafide Work done by **GURRAM.JAHNAVI** in partial Fulfilment of the requirements for the award of the degree of **Master of Business Administration** by **Jawaharlal Nehru Technological University, Kakinada** during the year 202. .

Dr. CH. HEMA VENKATA SIVA SREE

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Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

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This is to certify this major project entitle "FINANCIAL PERFORMANCE ANALYSIS IN CANARA BANK", is a bonafide work done by **K. AJAY BABU (21KN1E0014)** bearing roll number in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada** during the year of 2022-2023

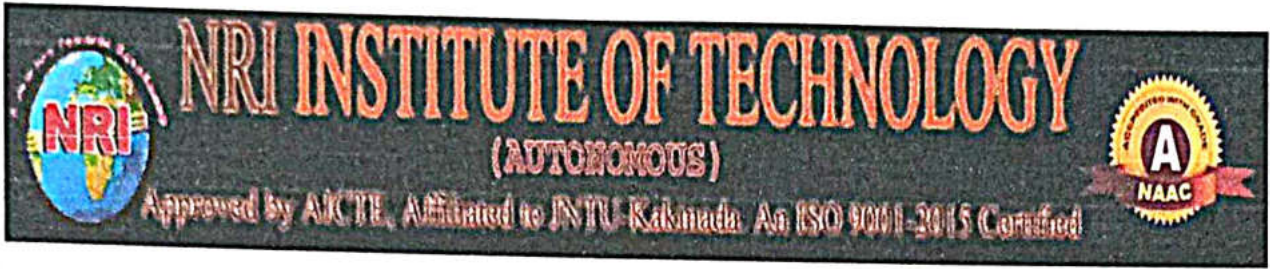
P. Manasa
Miss. P.MANASA

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Ch. Hema Venkata Siva Sree
Dr.CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

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This is to certify this major project entitle “**PROFITABILITY ANALYSIS IN HERO MOTO CORP, MATUR**”, is the bonafide Work done by **KALLEPALLI. SUPRAJA (21KN1E0015)** in partial fulfilment of the requirements for the award of the degree of **Master of Business Administration** by **Jawaharlal Nehru Technological University, Kakinada** during the year 2022-2023.


Miss. G. DHANALAKSHMI

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Dr. CH. HEMA VENKATA SIVA SREE

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This is to certify this major project entitle "WORKING CAPITAL MANAGEMENT IN KRISHNA DISTRICT COOPERATIVE CENTRAL BANK LIMITED, MACHILIPATNAM", is the bonafide Work done by KANDULA. UPENDRA in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.

P. Managa
Miss. P. MANASA

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Ch. Hema Venkata Siva Sree
Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT


Bb


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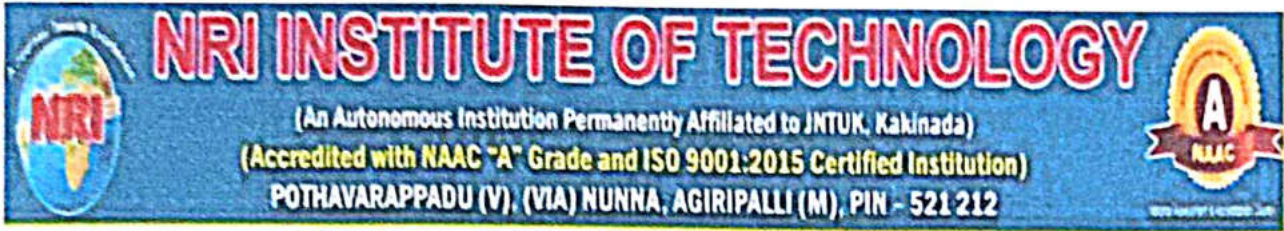
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This is to certify this major project entitle "A STUDY ON CONSUMER DURABLE LOANS AT BAJAJ FINSERV", is the bonafide Work done by KATARI.MANOJSATYA KUMAR in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2023.


Dr.K.CHINNIKRISHNA
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This is to certified that the main project work entitled "**A STUDY ON RECRUITMENT AND SELECTION ARETE IT SERVICES**", is a benefited work done by **KODAVATI BUJJI BABU** bearing roll number **21KN1E0018** in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada**.

P. Manasa

Mrs. P.MANASA

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Ch. Hemavenkatasivasree

Dr.CH.HEMAVENKATASIVASREE

HEAD OF THE DEPT

P. G. S. 24/9/23

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This is to certify this major project entitle "WORKING CAPITAL MANAGEMENT WITH REFERENCE TO VIJAYA DIARY, VIJAYAWADA", is the bonafide Work done by KODURU.VANI in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.

G. Dhana Lakshmi
G. DHANA LAKSHMI

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Dr. Ch. Hema Venkata Siva Sree
Dr. CH. HEMA VENKATA SIVA SREE

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Dr.CH.HEMA VENKATA SIVASREE
Professor & HOD

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Dr.CH.HEMA VENKATA SIVASREE
Professor & HOD

HEAD OF THE Department


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This is to certify this major project entitle "FUNDS FLOW ANALYSIS IN ITC LIMITED AGRI BUSINESS, CHIRALA" is the bonafide Work done by KURAPATI. KEERTHANA in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.


Miss. G. DHANALAKSHMI

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Dr. CH. HEMA VENKATA SIVA SREE

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This is to certify that the main project work entitled "**COST REDUCTION & CONTROL IN GRUHKARIN INTERIORS COMPANY**", is a benefited work done by **MANIKANTA MANDADI** bearing roll number **21KN1E0023** in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada**

Mrs. Dr. CH. HEMA VENKATA SIVA SREE

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Mrs. Dr. CH. HEMA VENKATA SIVASREE

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Dr. K. CHINNI KRISHNA
PROJECT GUID


Dr. CH. HEMA VENKATA SIVA SREE
HEAD OF THE DEPARTMENT


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Dr. K. CHINNI KRISHNA

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DR.CH.HEMA VENKATA SIVA SREE

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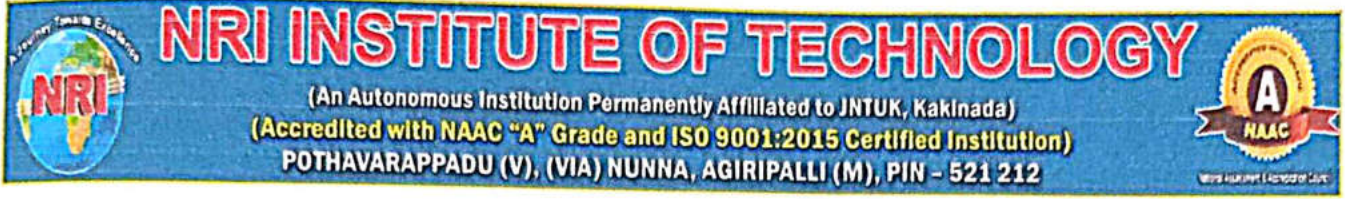
Dr. CH. HEMA VENKATA SIVA SREE

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Dr. CH. HEMA VENKATA SIVA SREE

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This is to certify this major project entitle **“Investor’s Perception Towards Stock Market with reference to SS Securities Limited”** is the bonafide Work done by **Nallapati Paawan Sriraag** in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University, Kakinada** during the year 2023.

Mrs. Dr. CH. Hema Venkata Siva Sree

Professor

Project Guide

Dr. CH. Hema Venkata Siva Sree

Professor & HOD

Head of the Department

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This is to certify this major project entitle **“WORKING CAPITAL MANAGEMENT”** in **“KUSALAVA INTERNATIONAL LIMITED”**, is the bonafide Work done by **NANAVARAPU. LEELA CHANNAKESWARI** in partial fulfilment of the requirements for the award of the degree of **Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada** during the year 2022-2023.

P-Manasa
P. MANASA

PROJECT GUIDE

Ch. Hema Venkata Siva Sree

Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT

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This is to certify this project entitled "A STUDY OF EMPLOYEE ENGAGEMENT AT BAJAJ FINSERV LTD" is the bonafide Work done by PAGOLU KAVYA in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022.


Dr.K.Chinni Krishna

Professor

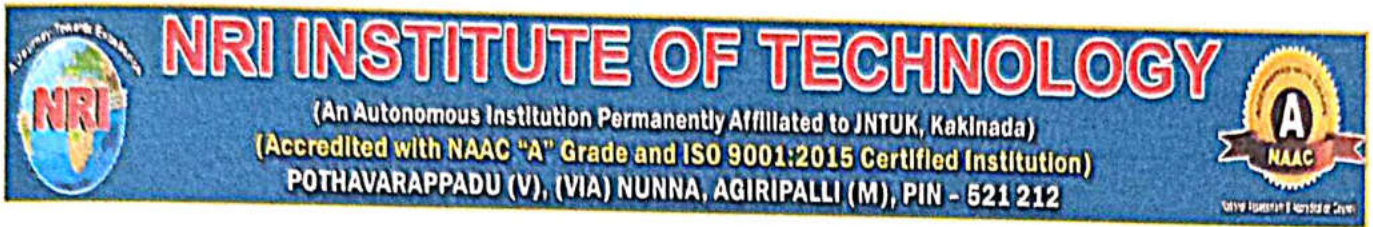
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Dr.Ch.Hema Venkata Siva Sree

Professor & HOD

Head of the Department


14/9/23



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This is to certify this project entitled "A STUDY ON DIVERSITY AND INCLUSION IN MEERAN GROUP" is the bonafide Work done by Sai Sri Lalitha Sistla in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.


Mrs. G. DhanaLakshmi

Project Guide


Dr. Ch. Hema Venkata Siva Sree

Head of the Department


14/9/23.



CERTIFICATE

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Miss. G. DHANALAKSHMI

PROJECT GUIDE


Dr. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT


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This is to certified that the main project work entitled **FINANCIAL STATEMENT ANALYSIS IN MOHAN SPINTEX INDIA LIMITED**, is a benefited work done by **T.LAKSHMI TIRUPATHAMMA** bearing roll number **21KN1E0034** in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada**

P. Manasa
P. MANASA

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Dr.CH. HEMA VENKATA SIVA SREE


HEAD OF THE DEPARTMENT



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This is to certify this project entitle "A STUDY ON WAGE AND SALARY ADMINISTRATION" with reference to "VIRAT CRANE LIMITED", is the bonafide Work done by VAKKALAGADDA SINDHU TEJA SREE in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2023.


Dr. K. CHINNI KRISHNA
PROJECT GUIDE


Dr. C.H. HEMA VENKATA SIVA SREE
HEAD OF THE DEPARTMENT


14/9/23.



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This is to certify this major project entitle "CUSTOMER PERPECTION TOWARDS HOME LOANS IN KRISHNA DISTRICT COOPERATE CENTRAL BANK LIMITED" is the bonafide Work done by VANGAPANDU. UDAY KUMAR in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.

DR. CH. HEMA VENKATA SIVA SREE

PROJECT GUIDE

DR. CH. HEMA VENKATA SIVA SREE

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This is to certified that the main project work entitled **INVENTORY MANAGEMENT IN COROMANDEL INTERNATIONAL LIMITED**, is a benefited work done by **V. NAGA MANI** bearing roll number **21KN1E0037** in Partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University Kakinada**


G.DHANA LAKSHMI
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This is to certify this major project entitle "RECRUITMENT AND SELECTION IN KUSALAVA INTERNATIONAL LIMITED", is the bonafide Work done by "VEERABATTHINA.RAJESH" (21KN1E0039) in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.

Dr. K. CHINNI KRISHNA

Professor

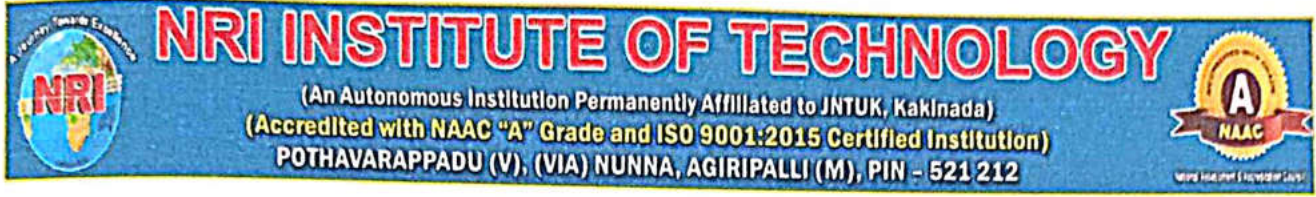
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DR. CH. HEMA VENKATA SIVA ASREE

Professor & Hod

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



CERTIFICATE

This is to certify this major project entitled "WORKING CAPITAL MANAGEMENT IN DR.NARLATATA RAO THERMAL POWER STATION, IBRAHIMPATNAM" is the bonafide Work done by V.VINEETHA KRISHNA in partial fulfilment of the requirements for the award of the degree of Master of Business Administration by Jawaharlal Nehru Technological University, Kakinada during the year 2022-2023.

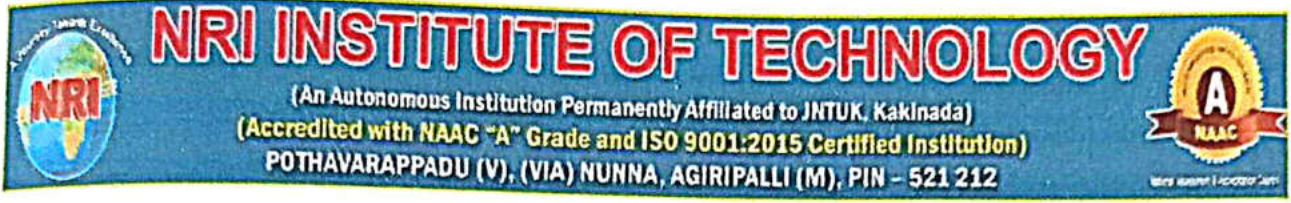
Dr. K. CHINNI KRISHNA

PROJECT GUIDE

Dr.CH.HEMA VENKATA SIVASREE

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



CERTIFICATE

This is to certify this major project entitle **LOANS & ADVANCES IN CANARA BANK** is the bonafide Work done by **YARRAMSETTI. GOPI CHANDU** in partial fulfillment of the requirements for the award of the degree of Master of Business Administration by **Jawaharlal Nehru Technological University, Kakinada** during the year 2022-2023.


Mrs. G. DHANA LAKSHMI

PROJECT GUIDE


DR. CH. HEMA VENKATA SIVA SREE

HEAD OF THE DEPARTMENT



EXTERNAL EXAMINAR

**A COMPARATIVE ANALYSIS OF STRENGTH AND
DURABILITY ATTRIBUTES OF SELF-CURING
CONCRETE INCORPORATING CRUSHED CERAMIC
WASTE**

A Project Report Submitted To

Jawaharlal Nehru Technological University Kakinada.



in partial fulfillment of the requirement for the award of the degree of
MASTER OF TECHNOLOGY

IN

STRUCTURAL ENGINEERING

Submitted By

BANDI. ABHISHEK

(21KN1D8701)

Under the Guidance of

P. Narendra Babu

Associate Professor



DEPARTMENT OF CIVIL ENGINEERING

NRI INSTITUTUE OF TECHNOLOGY

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Agiripalli, Krishna district – 521 212, Andhra Pradesh.

2021-2023

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



A Project Report on

**Application of ANFIS to Grid-tied PV system with APF
for Power Quality Enhancement**

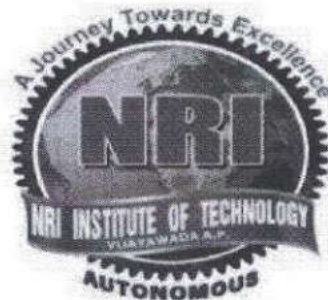
by

**THOKALA VAMSI
(20KN1D5206)**

Under the Esteemed Guidance of

S.RAMYAKA M.Tech

ASSISTANT PROFESSOR



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NRI INSTITUTE OF TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTUK, Kakinada)

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



A Project Report on

**PV-battery Hybrid system with Multi-Mode Power
Converter for Electric Vehicle Charging Station**

by

**CHOUTAPALLI RAJA NIHAL
(20KN1D5205)**

**Under the Esteemed Guidance of
Dr. N. SAMBASIVA RAO M.Tech, Ph.D
Professor & HOD**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
NRI INSTITUTE OF TECHNOLOGY**

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Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



A Project Report on

**FINITE ELEMENT METHOD DESIGNING FOR HYBRID
TRANSMISSION LINES AND HVDC**

by

**PILLI TANUJA
(20KN1D5204)**

**Under the Esteemed Guidance of
Mr. Raghunadha Sastry. R, M.Tech, (Ph.D)**

Associate Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



**A Project Report on
A Powerful and Convenient Bidirectional Battery
Charger Controller Designed for Electric Vehicles**

By

**MEGHAVATHU GOPICHAND
(20KN1D5203)**

**Under the Esteemed Guidance of
K VENKATA KISHORE
ASSOCIATE PROFESSOR**



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



A Project Report on

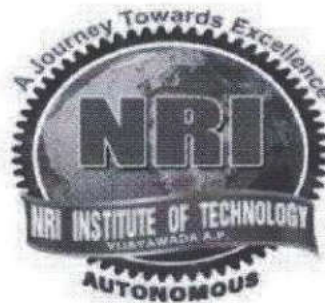
**A Novel 31 Level inverter with Lower DC Volage
Sources in a Distribution Network**

by

**GOTTUMUKKALA LATHA
(20KN1D5202)**

**Under the Esteemed Guidance of
BEZAWADA EEDUKONDALU M.Tech**

ASSISTANT PROFESSOR



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NRI INSTITUTE OF TECHNOLOGY

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Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,
KAKINADA**



A Project Report on

**Modeling and Control of a SVM based Multiport Converter for EV
Charging Station with PV and Battery**

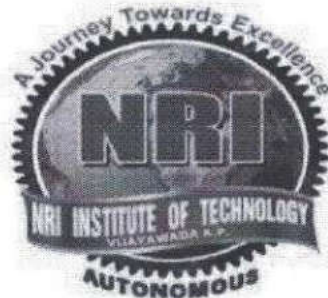
by

**GORRUMUCHU NEELESH
(20KN1D5201)**

Under the Esteemed Guidance of

I. PRASANNA KUMAR M.Tech

ASSISTANT PROFESSOR



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NRI INSTITUTE OF TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTUK, Kakinada)

(An ISO 9001:2015 Certified Institution)

Agiripalli, Krishna District-521 212, Andhra Pradesh, 2022

MEDIAPIPE CNN BASED PRETRAINED PATIENT BODY POINT IDENTIFICATION FOR UNCOMFORTABLE SLEEP

*Submitted to Jawaharlal Nehru Technological University,
Kakinada in partial fulfillment of requirement for the degree of*

Master of Technology

In

Digital Electronics and Communication Systems

Submitted by

B. YOGITHA SINGH

(20KN1D3802)

Under the esteemed guidance of

DR.K. PRATHYUSHA, PH.D.,

Associate Professor, Department of ECE



**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**

NRI INSTITUTE OF TECHNOLOGY

[AUTONOMOUS]

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(Accredited by NAAC with 'A' Grade, ISO 9001 : 2008 Certified)

POTHAVARAPPADU-521 212 VIJAYAWADA, Krishna Dist.

Ph : 0866-2469666 Website: www.nriit.edu.in E-mail: principal@nriit.edu.in

2021-2022



Department of
**ELECTRONICS & COMMUNICATION
ENGINEERING**



CERTIFICATE

This is to certify that the project report entitled “ **MEDIAPIPE CNN BASED PRETRAINED PATIENT BODY POINT IDENTIFICATION FOR UNCOMFORTABLE SLEEP**” that is being submitted by **B. Yogitha singh (20KN1D3802)** in partial fulfilment for the award of **Masters in Technology in Digital Electronics & Communication Systems** to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

Dr. K. Prathyusha, Ph.D.,

Associate Professor

Dr. R. Suresha, Ph.D.,

Head of the Department

**Head, ECE Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist.**

EXTERNAL EXAMINER




NRI INSTITUTE OF TECHNOLOGY


(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)
Accredited by NBA (CSE, ECE & EEE), Accredited by NAAC with 'A' Grade
ISO 9001: 2015 Certified Institution

Pothavarappadu (V), (Via) Nunna, Agripalli (M), Krishna Dist, PIN: 521212, A.P, India

Certificate

This is to certify that the Project entitled "**Predicting the Student Performance by using Machine Learning**" is a bonafide Work Carried out by Ch.Lakshmi Saranya (21KN1D5801), in partial fulfillment for the award of degree of Master of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada, Kakinada** during the year 2021-2023.


Project Guide
(Dr. K.V.SAMBASIVA RAO)
Professor, Department of CSE


Head of the Department
(Dr. D.SUNEETHA)
Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agripalli (Mdl.), Krishna Dist.


EXTERNAL EXAMINER



NRI INSTITUTE OF TECHNOLOGY

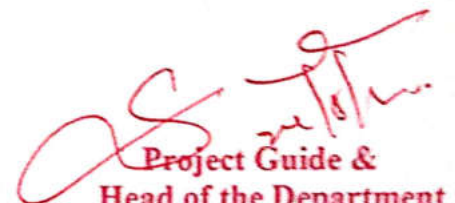
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ISO 9001: 2015 Certified Institution

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Certificate

This is to certify that the Project entitled "SAFE PATH PREDICTION USING MACHINE LEARNING" is a bonafide work carried out by LINGAMANENI INDRAJA (21KN1D5802) in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, during the year 2022-23.


EXTERNAL EXAMINER


Project Guide &
Head of the Department
(Dr. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (V)
Agiripalli (M), Eluru Dist.



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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled "**SEED TESTING TO IMPROVE CULTIVATION USING ANDROID APPLICATION**" is a bonafide work carried out by **KOMINENI CHAITANYA (21KN1D5803)** in partial fulfillment for the award of degree of Master of Technology in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada**, during the year 2022-2023.

Project Guide

(Mr. B.H. Dasaradha Ram)

Head of the Department

(Dr. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl.), Krishna Dist.

External Examiner





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Certificate

This is to certify that the Project entitled "MUSIC RECOMMENDATION THROUGH FACIAL EMOTION DETECTION USING DEEP LEARNING" is a bonafide Work carried out by **JITENDRA GUMMADI (21KN1D5804)** in partial fulfillment for the award of degree of Master of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada**, during the year 2022-23.

Project Guide
(Dr. SHOBANA GORINTLA)

Head of the Department
(Dr. D.SUNEETHA)

Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl.), Krishna Dist

External Examiner 4/9/23



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Certificate

This is to certify that the Project entitled "AN EFFECTIVE SUSPICIOUS ACTIVITY DETECTION MODEL ON CCTV FOOTAGE USING MACHINE LEARNING" is a bonafide work carried out by N Swarna Latha (21KN1D5805) in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2022-2024.

ASH 30/8/23
EXTERNAL EXAMINER

[Signature] 20/8/23
Project Guide & Head of the Department

(Dr. D. SUNEETHA)
Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl.), Krishna Dist.



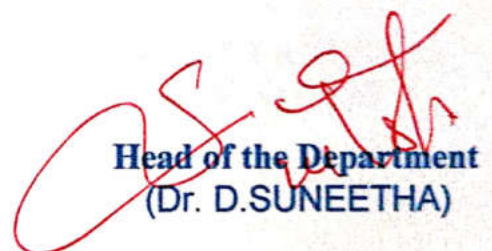
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Certificate

This is to certify that the Project entitled "FUTURE PREDICTION OF BRAIN STROKE USING MACHINE LEARNING" is a bonafide work carried out by RAAVI ANUSHA (21KN1D5807) in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, during the year 2022-23.


Project Guide
(Ms. SYDA NAHIDA)


Head of the Department
(Dr. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl.), Krishna Dist.


External Examiner





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Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212
URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



Certificate

This is to certify that the Project entitled "**AUTOMATIC BRAIN STROKE DETECTION USING ADAPTIVE HISTOGRAM BASED CLASSIFICATION METHODS**" is a bonafide work carried out by **T. RAJENDRA PRASAD (21KN1D5808)** in partial fulfillment for the award of degree of Master of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada**, during the year 2022-2023.

Project Guide
(Mr. B.VENUGOPAL)

Head of the Department
(Dr. D.SUNEETHA)
Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl.), Krishna Dist.

External Examiner



NRI INSTITUTE OF TECHNOLOGY

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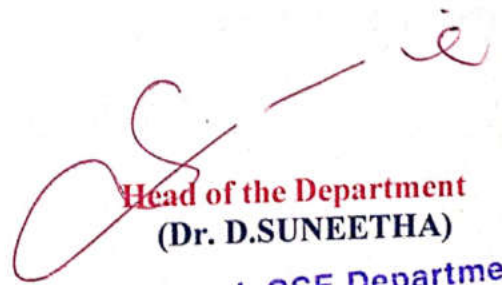


Certificate

This is to certify that the Project entitled "**STYLEGAN BASED WEBCAM IMAGE FACE TRANSFERRING**" is a bonafide work carried out by **S.VENKATESWARA RAO (21KN1D5809)** in partial fulfillment for the award of degree of Master of Technology in **Computer Science and Engineering** of **Jawaharlal Nehru Technological University Kakinada**, during the year 2022-2023.



Project Guide
(Ms. SYDA NAHIDA)



Head of the Department
(Dr. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl.), Krishna Dist.


External Examiner





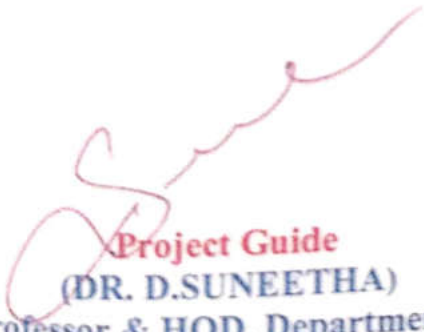
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Certificate

This is to certify that the Project entitled "Categorization of Phishing Websites using an extremely Intelligent Machine Learning Algorithm" is a bonafide Work Carried out by V. Sravani (21KN1D5810), in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, Kakinada during the year 2021-2023.


Project Guide
(DR. D.SUNEETHA)
Professor & HOD, Department of CSE


Head of the Department
(DR. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (M), Krishna Dist.


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Certificate

This is to certify that the Project entitled "ANALYSIS OF FINAL RATINGS IN TOURISM USING VARIOUS MACHINE LEARNING TECHNIQUES" is a bonafide work carried out by VEMPA PHANI SURYA HARISH (21KN1D5811) in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada, during the year 2021-23.

M.S.H.
EXTERNAL EXAMINER

[Signature]
Project Guide &
Head of the Department
(Dr. D.SUNEETHA)

Head, CSE Department
NRI Institute of Technology
POTHAVARAPPADU (V),
Agiripalli (Mdl.), Krishna Dis.

