



NRI INSTITUTE OF TECHNOLOGY **INFORMATION TECHNOLOGY**

NEWS BITES

Chief Patron: Dr.R.Venkata Rao,Chairman.

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- 1)Dr.G.Rosaiah,Academic Director.
- 2)Dr.Ch.Naga Bhaskar,Principal.

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VOL-23

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- 1.Dr.M. Chaitanya Kishore Reddy ,HOD-IT
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2. T.Manjunadha

Inside This Issue:

- Department Events
- Department Guest Lectures /Faculty As Participated In Faculty Development/Training Achievements/STTPS.
- Major Students Achievements./Student Article
- Placements.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



VISION OF THE INSTITUTE

To produce professionally Excellent, Knowledgeable, Globally Competitive and Socially responsible Engineers and Entrepreneurs.

MISSION OF THE INSTITUTE

M1	Providing Quality Education through state-of-art Infrastructure, Laboratories and Committed Staff.
M2	Establishing a continuous Industry - Institute Interaction, Participation and Collaboration to contribute Skilled Engineers.
M3	Involving Faculty members and Students in Research and Development to become globally competitive and for the betterment of the Society.
M4	Developing Human values, social values, Entrepreneurship skills and Professional Ethics among the Technocrats.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



VISION OF THE DEPARTMENT

Empower Information Technology students with outstanding skills, well-informed, globally-minded, and socially-conscious engineers and innovators

MISSION OF THE DEPARTMENT

M1	Provide a comprehensive and up-to-date curriculum to empower students with excellent IT skills and knowledge.
M2	Cultivate a global perspective by exposing students to international IT trends and practices.
M3	Create an entrepreneurial ecosystem that nurtures innovative thinking and encourages IT students to become successful entrepreneurs.
M4	Promote ethical practices and social responsibility in the IT industry.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

PEO1	Excel in applying technical knowledge to develop practical IT solutions for real-world challenges.
PEO 2	Pursue lifelong learning, staying updated with IT advancements and adapting to emerging technologies for industry relevance.
PEO 3	Exhibit strong leadership, teamwork, and communication skills to drive IT projects and achieve common goals effectively.
PEO 4	Empowering IT professionals to work with ethical and social responsibility, driving positive impacts on technology and society.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1	Understand and analyze complex problems, design efficient algorithms, and implement software solutions using various programming languages and tools.
PSO 2	Exhibit proficiency in Artificial Intelligence and Machine Learning for providing solutions to real world problems in Industry and Research establishments.
PSO 3	Design, develop, and implement softwaresystems that meet user requirements, considering factors like usability, security, and scalability.



PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and computing to solve Information Technology related problems.
2. **Problem Analysis:** Identify, formulate, review relevant research literature, and analyze complex Information Technology problems, arriving at well-founded conclusions by leveraging foundational principles of mathematics, natural sciences, and engineering sciences.
3. **Design / Development of Solutions:** Create solutions for intricate Information Technology challenges and design system components or processes that fulfill specified requirements while giving due regard to public health and safety, as well as cultural, societal, and environmental factors.
4. **Conduct Investigations of Complex Problems:** Investigate complex Information Technology problems using research methods, data analysis, and data interpretation to derive valid conclusions.
5. **Modern tool usage:** Use modern engineering and IT tools, software, and equipment to develop complex software projects efficiently.
6. **The engineer and society:** Apply engineering solutions in a societal context, considering ethical, legal, cultural, economic, and environmental aspects.
7. **Environment and sustainability:** Understand the Impact of Information Technology Solutions in Societal and Environmental Contexts, and Demonstrate the Knowledge of, and need for Sustainable Development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities within the field of information technology.
9. **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams, and multidisciplinary settings.
10. **Communication:** Effectively communicate complex information technology concepts to both IT community and society at large, including the ability to write reports, design documentation, make presentations, and give and receive clear instructions.
11. **Project Management and Finance:** Apply Information Technology and management principles to proficiently manage projects as an individual and leader within software development environments.
12. **Life-Long Learning:** Recognize the need for lifelong learning to remain current in the dynamic IT environment.

EVENTS

SANKRANTI SAMBARALU



"Sankranti Sambaralu" generally refers to the celebrations of the harvest festival of Sankranti, which is widely celebrated in India. And our IT Department conducted various cultural events, traditional rituals, and festive activities.



EVENTS



SUNRISE 2K22



“SUNRISE-2K22”
SUNRISE-2K22 is a technical fest conducted by the NRI College which has both technical and non-technical events. And our IT Department also conducted various technical and non technical events.



PAPER PUBLICATION

DEPARTMENT OF INFORMATION TECHNOLOGY LIST OF JOURNAL PUBLICATION 2020-2021

S.NO	NAME OF THE FACULTY	TITLE	NAME OF JOURNAL	ISSN NO	VOLUME	ISSUE
1	Dr.M.Chaitanya Kishore Reddy	An Integrated Routing Protocol which improves the Routing in WSN	Journal Of Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
2	Mr.SK.Mahabob Basha	A FRAMEWORK TO DETERMINE CYBERCRIME INFORMATIN THROUGH DATA ANALYTIC APPROACH	Journal Of Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
3	Mr.B.B.K.Prasad	TAXONOMY OF RESEMBLAN CE PLY DEEP LEARNING	Journal Of Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
4	B.Naga Raju	Identification of Numeric Indication using Machine Learning	Journal Of Informational and computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020

5	Mr.B.Avinash	An approach towards Image Re-ranking based on Topic Diversity in Image Processing	Journal Of Science, Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
6	Dr.M.Aruna Safali	Enhanced Crop Yielding Technique using Machine Learning	Journal of Science, Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
7	Mr.E.Karunakar	An preserving top security-k query protocol for two-tiered sensor network under IND-CKA model	Journal Of Science, Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
8	Mrs.P.Naga Lakshmi	IDENTIFICATION OF HARMFUL URLS USING RANDOM FOREST ALGORITHM	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020
9	Dr.M.Chaythanya Kishore Reddy	An Analysis of Real Time Detection Using SUM's from Twitter	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020

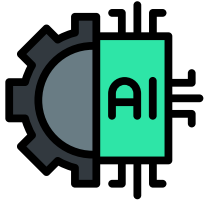
10	Dr.M.Chaythanya Kishore Reddy	Analysis of Beacon Technology and the Future with it	Journal Of Science, Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
11	Mr.SK.Mahabob Basha	A Non-Linear Chaotic Based PSO Feature Selection Approach For High Dimensional Data Classification	International Journal of Scientific and Technology Research	ISSN NO-2277-8616	Volume-9 Issue-4	2020
12	Mr.B.B.K.Prasad	Enhanced Energy Query Processing in Web Searching	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020
13	Mr.SK.Mahabob Basha	A Dialect Free System to Extricate Locutions Using QPM	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020
14	Mr.E.Karunakar	Ensemble Fake Profile Detection Using Machine Learning (ML)	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020
15	Mr.B.Avinash	Anatomization of Sub-Diseases using LR in ML	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020

16	Dr.M.Chaitanya Kishore Reddy	Comprehensive Auditing in Clouds with Identity-Based Data Outsourcing	International Journal of Computational Mathematical Ideas	ISSN NO-0974-8652	Volume-19	2019
17	Dr.M.Chaythanya Kishore Reddy	Hand Gesture Recognition by Using the Leap Motion Controller with the help of Touch less Virtual Reality Technology.	Journal Of Information and Computational Science	ISSN NO-1548-7741	Volume-10 Issue-3	2020
18	Dr.M.Aruna Safali	Enhanced Crop Yielding Technique using Machine Learning	Journal of Science, Technology and Development	ISSN NO-0950-0707	Volume-9 Issue-3	2020
19	Dr.M.Aruna Safali	Enhanced Crop Yielding Technique using Machine Learning	Journal of Science, Technology and Development	ISSN NO-1548-7741	Volume-10 Issue-3	2020

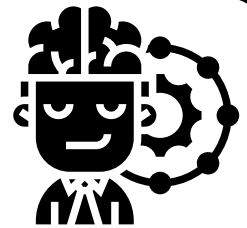
Student Artical By

GUDIBANDI BHAVAGANA REDDY

APRIL-2022



Machine Learning System



Machine learning systems are computer algorithms designed to recognize patterns and learn from data. They're a subset of artificial intelligence (AI) that allows machines to improve their performance on a task through experience, without being explicitly programmed.

These systems typically involve:

1. **Data Collection**: Gathering and organizing relevant data to train the model. The quality and quantity of data significantly impact the system's performance.
2. **Feature Selection/Extraction**: Identifying and selecting the most relevant features (variables) from the data that contribute to learning.
3. **Model Training**: Using algorithms to train the model by feeding it data and allowing it to adjust its parameters to recognize patterns and make predictions.
4. **Testing and Validation**: Evaluating the model's performance using separate data (testing/validation set) to ensure it generalizes well to new, unseen data.
5. **Deployment and Monitoring**: Implementing the model into real-world applications and continuously monitoring its performance to ensure it remains accurate and up-to-date.

There are various types of machine learning:

1. **Supervised Learning**: The algorithm learns from labeled training data, where both input and output are provided.
2. **Unsupervised Learning**: The algorithm learns from unlabeled data, finding patterns or structures within the data.
3. **Semi-Supervised Learning**: A combination of supervised and unsupervised learning using a small amount of labeled data along with a large amount of unlabeled data.
4. **Reinforcement Learning**: The algorithm learns by interacting with an environment and receiving feedback in the form of rewards or penalties.

Machine learning finds applications in various fields such as image and speech recognition, natural language processing, recommendation systems, healthcare, finance, and more. Understanding the principles and techniques behind machine learning helps in developing systems capable of performing complex tasks and making predictions or decisions based on data.

PLACEMENTS

Program name and assessment year : Information Technology& 2020-21

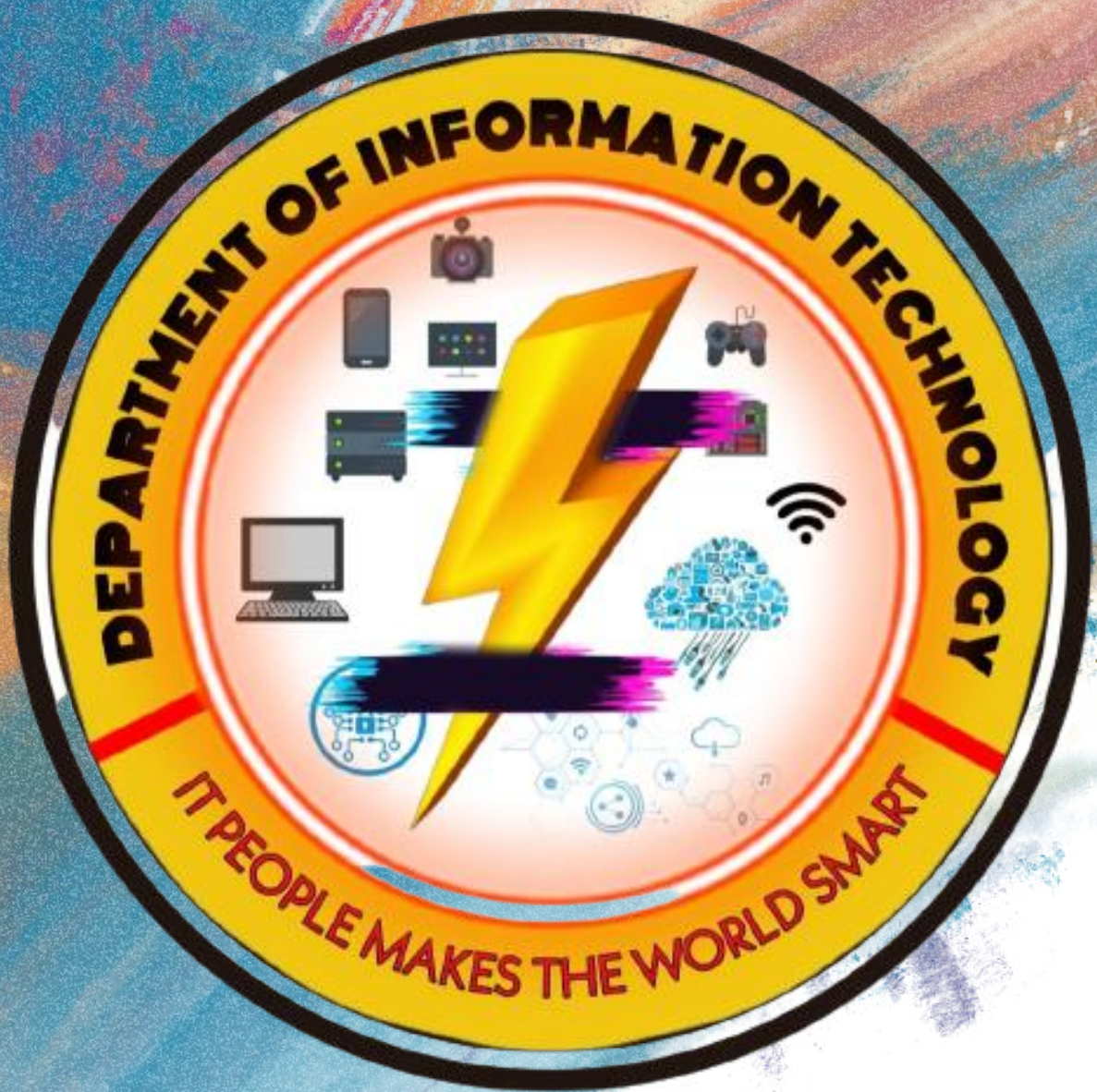
SN	Name of the student Placed	Enrollment	Name of the employee	Appointment letter reference no.with date
1	ALURI SUKEERTHI	17KN1A1202	Tech Mahindra	Tech Mahindra /2021/NRI 001
2	ATMAKURI JAHNAVI VENKATA BHARATHI SRIJA	17KN1A1204	Sutherland - Non Voice	Sutherland - Non Voice /2021/NRI 002
3.	BALANTRAPU SAI SRI NAGA GAYATRI	17KN1A1205	Galaxe	Galaxe /2021/NRI 003
.4	BODA SUDHA MADHURI	17KN1A1207	Pentagon	Pentagon /2021/NRI 004
5	CHINNI RAM KIRAN	17KN1A1208	DXC	DXC/2021/NRI 005
6	ELURI NIVEDITHA	17KN1A1209	TCS	TCS /2021/NRI 006
7	GUJJULA Meghana	17KN1A1211	Infosys	Infosys/2021/NRI 007
8	INTURI SAMYUKTHA	17KN1A1213	Wipro	Wipro /2021/NRI 008
9	Kalangi SatyaSri	17KN1A1214	Pentagon	Pentagon /2021/NRI 009
10	KANNETI DURGA	17KN1A1216	DXC	DXC /2021/NRI 010
11	KARUMURI DEVI SUPRIYA	17KN1A1218	Pentagon	Pentagon/2021/NRI 011
12	KOLAPALLI ANIL SAI	17KN1A1220	Infy TQ	Infy TQ /2021/NRI 012
13	KOTHAGUNDLA LAVANYA	17KN1A1222	DXC	DXC /2021/NRI 0013
14	KOTIPALLI KAVYA SRI	17KN1A1223	TCS	TCS /2021/NRI 014
15	LOKINDI GOPI	17KN1A1224	Infosys	Infosys /2021/NRI 015

16	Madasu Jagadeesh	17KN1A1226	Sutherland - Non Voice	Sutherland - Non Voice /2021/NRI 016
17	MANCHANA PAVANI	17KN1A1228	Wipro	Wipro /2021/NRI 017
18	MANDADAPU POOJA	17KN1A1229	Wipro	Wipro /2021/NRI 018
19	MUNIPALLI KIRANMAYEE	17KN1A1233	DXC	DXC/2021/NRI 019
20	MUPPALLA ANJALI	17KN1A1234	Accenture	Accenture/2021/NRI 020
21	MUTHYALA SATHYAVATHI	17KN1A1235	Wipro	Wipro /2021/NRI 021
22	NIKITHA RANI SHARMA	17KN1A1238	FEXLE	FEXLE/2021/NRI 022
23	PODILI SRAVANI	17KN1A1240	Sutherland - Non Voice	Sutherland - Non Voice /2021/NRI 023
24	POTLAPALLI SRAVYA	17KN1A1241	Virtusa Polaris	Virtusa Polaris /2021/NRI 024
25	RACHAMADUGU GEETHA MEGHANA	17KN1A1243	PWC	PWC /2021/NRI 025
26	RAMISETTI SRIDEVI	17KN1A1245	Pentagon	Pentagon/2021/NRI 026
27	RAYALA PRAVALLIKA	17KN1A1246	DXC	DXC/2021/NRI 027
28	REDDIROTU HEMA LATHA	17KN1A1247	DXC	DXC/2021/NRI 028
29	RITIKA RANJANA	17KN1A1248	Infosys	Infosys/2021/NRI 029
30	VAJRALA PAVANI	17KN1A1255	TCS	TCS/2021/NRI 030
31	VEMURI GVD SAI SRI	17KN1A1257	FEXLE	FEXLE/2021/NRI 031
32	YANDURI ALEKHYA VENKATA	17KN1A1258	Sutherland - Non Voice	Sutherland - Non Voice /2021/NRI 032



MOU's

S.NO	NAME OF THE ORGANIZATION	SERVICE PROVIDED BY THE ORGANIZATION
1.	MICROLINKS PERIPHERAL CONTROLS PVT.LIMITED	Enriching the technical education process and for continuous interaction between industry and institution
2.	SRC-E SOLUTIONS	WORKSHOPS/ VISITS/PROJECTS/INTERNSHIPS
3.	BLACKBUCK ENGINEERS PVT.LIMITED	PROGRAMMING SKILLS,INTERNSHIPS & PROJECTS
4.	ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES	Faculty Exchange and Student Exchange
5.	IGNITIVE LABS TECHNOLOGIES PVT.LIMITED	TRAINING PROGRAMS & CONDUCTING DRIVES
6.	GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY	Faculty Exchange and Student Exchange
7.	INDIAN SERVERS	CONDUCTING TRAINING PROGRAMES
8.	GRUHA NIRMAN INFRA	INTERNSHIPS /INDUSTRIAL VISIT
9.	ASHOKA WOMEN'S ENGINEERING COLLEGE	Faculty Exchange and Student Exchange
10.	MIND BRIDGE CONSULTING	TO ENHANCE SKILL & KNOWLEDGE
11.	NOVUS GREEN ENERGY SYSTEMS LIMITED	
12.	SK DEEP TECH PVT.LIMITED	Student Certifications
13.	RK COLLEGE OF ENGINEERING	Faculty Exchange and Student Exchange
14	LEO GLOBAL SERVICES PRIVATE LIMITED	INTERNSHIPS /INDUSTRIAL VISIT
15	LEARNET SKILLS LIMITED	PROVIDE TRAINING ,INTERNSHIPS
16	VIRTUSA CONSULTING SERVICES PRIVATE LIMITED	ENRICHING PRACTICAL SKILLS & IMPARTING INDUSTRY RELEVANT COURSE
17	ED & IMMIGO OVERSEAS CONSULTANCY PVT.LIMITED	



DEPARTMENT OF INFORMATION TECHNOLOGY

IT PEOPLE MAKES THE WORLD SMART