Objectives

The main objective of the short term training programme is :

- To deal with the foundation concepts and recent trends and advancements in Data mining, Statistics, data analytics, machine learning, AI techniques, predictive models using AI tools.
- To provide a common platform for academicians, research scholars and industry participants to develop a sensible knowledge of data analytics, machine learning, and Artificial Intelligence and derive practical solutions leading to predictive analytics.
- To provide hands on sessions using R and Python programming with practical applications.

Expected Outcome

Towards the end, the participants are expected to gain :

- Sensible knowledge in predictive analytics and Artificial intelligence Techniques.
- Understand how data mining, data sets and machine learning concepts are applied to data analytics and predictive analytics
- Understand how machine learning uses computer algorithms to search for patterns in data sets.
- Learn how to use data patterns to make decisions and predictions with real-world examples.
- Learn the recent advancements in data analytics and machine learning for research and development efforts.
- Capable of writing algorithms in Python programming to obtain solutions and build models by the end of the session.

Co-Coordinator

Dr. D Sunitha

Mobile : 9948898799

Email : hodcse@nriit.edu.in

Single Point of Contact (SPOC):

Sri P Narendra Babu

naren.pamula@gmail.com

9032333307, 9074304143

Important Dates

	Slot 1	Slot 2	Slot 3	Slot 4
Program Dates	02-07, November 2020	14-19, December 2020	04-09, January 2021	15-20, March 2021
Registration Ends	28-10-2020	09-12-2020	29-12-2020	12-03-2021
Selection Intimation	30-10-2020	11-12-2020	31-12-2020	13-03-2021

Eligibility

Faculty working in AICTE approved Institutes and having the zeal to do rigorous research in the field of Predictive Analytics using Artificial Intelligence. 10% of the participants from industry and not more than 2 participants from the host institution are permitted to attend the program.

Registration link

https://bit.ly/3jMqx1n

- No Registration fee

Timing of the STTP:

- 10.00 AM to 12.00 Noon &
- 2.00 PM to 4.00 PM

A One Week Short Term Training Programme On Predictive Analytics using Artificial Intelligence (STTP-PAUAI)

Registration link : https://bit.ly/3jMqx1n

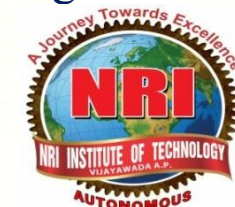**SPONSORED By**

Announcement Brochure

Program Coordinator

Dr.K.V.Sambasivarao

Professor, CSE Department

Slot 1	02-07, November 2020
Slot 2	14-19, December 2020
Slot 3	04-09, January, 2021
Slot 4	15 - 20, March 2021

Organized by

Department of Computer Sc. & Engineering,

NRI Institute of Technology

Pothavarappadu, Agiripalli Mandal Krishna Dt, A.P -521212

Cell : 9440115556, **Email : kvsrao@nriit.edu.in**

About the Institution

The NRI Institute of Technology, Pothavarappadu (NRIIT) is established in the state of Andhra Pradesh in the year 2008 under the patronage of **Sri Durga Malleswari Educational society, Vijayawada**, to provide quality technical education and to promote the research and development activities in Science, Engineering and Management fields.

The institution is built in a calm and serene atmosphere, surrounded by lush greenery and is well connected by college as well as public transportation. Ideally located on sprawling 20 acre Mango groves, on Vijayawada – Nuziveedu State Highway, the campus is about 23 KM away from Vijayawada and 22 KM away from Gannavaram Airport.

NRIIT offers six B.Tech Courses in Engineering viz., CSE, IT, ECE, EEE, MECH and CIVIL Engineering and six Post Graduate programmes viz., M.Tech with five specializations viz., Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering, and Thermal Engineering and Master of Business Administration.

The institution is granted autonomous status by UGC in 2018-19. It approved by AICTE, New Delhi and permanently affiliated to JNTU Kakinada. NRI Institute of Technology is accredited with NAAC "A" grade and has achieved NBA accreditation in B.Tech CSE, ECE and EEE.

All departments are well equipped with the state-of-the-art equipment, sophisticated laboratories, Computer Centres, with the most contemporary facilities backed by advanced computer systems and the latest software

Faculty: The institution has a brilliant team of well-qualified faculty members with vast experience in teaching and research. The faculty members have varied academic background in the fields of Engineering, Technology, Humanities and Sciences. The faculty members are actively engaged in research and consultancy works and regularly publish their research findings in standard national and international journals. Some of the faculty members have received awards for academic excellence from JNTU and other governmental bodies.

About the organizing Department

The Departments of Computer Science and Engineering was established in the year 2008. The Department is known for its excellent facilities and faculty. It offers B.Tech (CSE), M.Tech (CSE) programs at Under graduate and Post Graduate levels. The aim of these programs is to enable students to acquire specialized knowledge for various subjects in computer science & information technology, as well as to enrich the students' personal, social and cognitive development to meet challenges of today and tomorrow.

The department is taking maximum advantage of autonomous status and has prepared an excellent course curriculum for its autonomous students linking industry with curriculum. The autonomous curriculum is enriched with a wide range of curses viz., Practice based learning, Project based learning, and choice based learning, Optional Electives, Skill Development courses, Co-curricular activities, Professional Development activities, CPT modules, Audit Courses and Open Electives etc.

The department has acquired a **Recognized Research Centre** by J N T U Kakinada, after considering the potential of its resources. Andhra Pradesh State Skill Development Corporation (APSSDC) has established a state-of-the-art **AP CMs Skill Excellence Centre** with knowledge partners: Google, Amazon, Microsoft, Udacity, Coursera, etc. The department also entered into to MOU with 6 reputed organizations, which help us to arrange Expert lectures, Workshops, Seminar Talks, and Training Sessions.

The department is enriched with 35 well qualified and experienced staff, out of which 7 staff members are Doctorates, 12 staff members are doing their Ph.Ds. Every year the staff members publish a total of 50 – 70 research papers in reputed international journals. The sincere efforts of teaching and non-teaching staff with their diversity of knowledge have spawned a plethora of exciting jobs. The department is making all its efforts to improve infrastructure & facilities in the Department. Department has been witnessing praise worthy performance of our passed out students in many Multi-national Companies and in general IT industry. Many companies of repute show their interest to visit our Institute for campus recruitment.

Tentative Topics to be covered

	FN : 10.30 – 12.30	AN : 2.00 – 4.00
Day-1	Introduction of AI, ML and DL, AI vs ML vs DL Applications of AI	Data Mining concepts, Big data analytics and Applications
Day-2	Introduction to Data science, Data Preprocessing, Overview of Python for Data Science	ML Algorithms, Association Rules, Regression, Case studies using python
Day-3	Supervised Learning Alogorithms, K-NN, SVM, Decision Trees, Case studies using python	Naïve Bayes, Random Forest classification, Boosting methods, case studies using Python
Day-4	Semi-Supervised Algorithms, Reinforced Learning, Multi-class approaches, Transfer Leaning	Introduction to Deep Learning, Case studies using Python
Day-5	Un-supervised Learning Algorithms, K-Means, Clustering, CNN	Demonstration of Un-supervised Learning Algorithms, Case studies with Python
Day-6	Industry Perspective, Chat Bot, Case studies and Future Directions in AI	Industry Perspective, Case studies and Future Directions in AI

Resource Persons
Resource persons are identified from highly reputed Institutions and Industry across India.

Certification
Joint certificates shall be issued (by AICTE & NRI Institute of Technology, Agiripalli) to those participants who have attended 80% of the sessions and have scored a minimum of 60% marks in the test, conducted towards the end of the program. Seats are allotted purely first come, first serve basis.