

One Week Online Faculty
Development Programme
on

**“Machine Learning in Big
Data Applications and
Security Challenges”**

(24th – 29th April 2023)



RESOURCE PERSONS

Experienced faculty from prominent universities, premier institutions, industry experts and host institution.

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Sri. Marri Rajashekar Reddy - Secretary
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Ms. Marri Shreya Reddy - Director

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CO-PATRON

Dr. A. Balaram - Professor & HoD- CSE

CONVENER

Dr. Ajmeera Kiran – Asst. Prof. - CSE

CO-CONVENER

Dr. N. Shirisha – Assoc. Prof. - CSE

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Prof. M. Venkateswar Reddy, HoD-MECH
Dr. T. Arun Kumar, Dean- R&D

ORGANIZING COMMITTEE

All staff members of Department of CSE.



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Organized by

DEPARTMENT OF

COMPUTER SCIENCE AND ENGINEERING

**MLR Institute of Technology
(An Autonomous Institution)**

**(Approved by AICTE, New Delhi,
Affiliated to JNTU, Hyderabad)
ACCREDITED BY NBA and NAAC)**

<https://mlrit.ac.in>



ABOUT THE INSTITUTE

MLR Institute of Technology (MLRIT) is known for its integrated curriculum with equal importance to academics, employable skills & sports. MLRIT is located at Dundigal, Hyderabad, Telangana, India. The institution was started in 2005 by the KMR Education Trust, founded by Mr. Marri Laxman Reddy. The institute has Six UG courses along with Seven PG Courses. The institute is affiliated with Jawaharlal Nehru Technological University, Hyderabad (JNTUH). It was granted Autonomous status by University Grants Commission (UGC - India) in the year 2015. MLRIT is imparting higher education in the fields of Computer Science and Engineering (CSE), Electronics Communication Engineering (ECE), , Mechanical Engineering (ME), Aeronautical Engineering (AE), Information Technology (IT), Master of Business Administration (MBA).

ABOUT THE DEPARTMENT

The B. Tech program in Computer Science and Engineering was started in the year 2005 with an intake of 60, increased to 120 in 2007, 180 in 2012 and 240 in 2013. Besides, an additional 10% seats are under lateral entry scheme. The department is also offering M. Tech program in Computer Science and Engineering from the year 2011, with an intake of 18. The B. Tech (Computer Science and Engineering) program accredited by the National Board of Accreditation (NBA) since 2008.

The department has highly qualified faculty with excellent research publication and well-equipped labs. The department has collaboration with reputed industries and research development organizations. The department offers seminar and guest lectures, apart from it, to improve the

employability and soft-skills the department conducts regular training in soft-skills throughout the year.

OBJECTIVES OF THE PROGRAMME

This FDP focus on fundamental concepts and techniques related to Machine Learning, Deep Learning, and Big Data. The program aims to provide hands-on experience on available tools, recent advancements and research outcomes in Machine Learning and Big Data Applications and Security Challenges. This training program will provide a platform to the researchers, industry experts, and academic professionals to share their research experiences in the field of Machine Learning and Big Data.

OUTCOMES OF THE PROGRAMME

•Machine learning in big data analytics is an emerging area of research. This training program will definitely help participants to comprehend and master concepts like classification, regression, and prediction. It also enhances knowledge in deep learning basics and statistical modeling.

At the end of this Training Program, participants will be able to

- Solve real-world problems by applying Machine Learning and Data Analytics tools.
- Integrate Machine Learning libraries, and mathematical tools with modern technologies like HDFS and Map Reduce.

TOPICS

- Conceptual understanding of Big Data, Machine Learning, and Deep Learning.
- Challenges in Big Data Analytics

- Research Scope and Applications of Machine Learning.
- Python & R Programming for Machine Learning and Big Data Analytics.
- Regression Techniques and Decision Tree algorithms. Deep learning algorithms and applications in Big Data Analytics
- Cyber Security challenges in Big Data
- Cyber threats identification using Machine Learning

ELIGIBILITY

This program is open to all the faculty members and Research Scholars, PG Scholars of AICTE approved Engineering and Polytechnic Colleges. A maximum of 250 participants will be shortlisted based on first come first serve.

ADDRESS FOR COMMUNICATION

Dr. Ajmeera Kiran

Convener and Assistant Professor
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ajmeerakiran@mlrinstitutions.ac.in**

REGISTRATION DETAILS

Eligible participants are requested to fill the online registration form on or before 22/04/2023
<https://forms.gle/f7zN8uDyeEa1xQfb6>

There is No Registration Fee. The certificates will be issued to those who maintain minimum 80% attendance and scores above 60% marks in the test that is conducted at the end of the online program.