



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON



Machine Learning and Generative AI

(22nd July – 1st August 2024)

Organised by

Electronics & ICT Academy, NIT Warangal

in association with

NIT Warangal Jointly with MLR Institute of Technology, Hyderabad

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The Faculty Development Programme will help to disseminate the knowledge in the domain of DL and Machine learning with python for Medical Applications. It empowers the participants to understand how ML & DL can be used to innovate and improve the Medical related applications. Deep Learning is a fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the powerful insights they need to make smarter business decisions. The participants will be trained with hands-on approach in order to have an in-depth insight into the domain of ML& DL and expose them to Feasibility & future scope

Major Course Contents:

1. Introduction to Artificial Intelligence, Machine Learning and Deep Learning
2. Research in Machine Learning, Deep Learning and Applications
3. Regression Models and Types
4. Perceptron's, Multilayer Perceptron's, and Backpropagation
5. Basics of Python
6. Decision trees, Unsupervised Learning Methods, K-Means
7. Dimensionality Reduction Methods, PCA
8. Support Vector Machine
9. Introduction to Deep Learning
10. CNN models and types
11. Generative AI, Auto encoders and GAN'S
12. Applications
13. Object Detection and Segmentation

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars/Industry Personnel	Rs.1000/-
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Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149
Bank and Branch: State Bank of India, NIT (REC) Warangal



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How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/XQLrmxptRE5YAFby5>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important Dates:

Last date (Application & DD)	20.7.2024
Selection List by E- mail	21.7.2024
Duration	22.7.2024 to 1.8.2024 Time: 10:00am to 12:00pm and 2:00pm 4:00pm

About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About MLRIT:

MLR Institute of Technology is known for its integrated curriculum with equal importance to academics, employable skills & sports. MLR Institute of Technology (MLRIT) is located at Dundigal, Hyderabad, Telangana, India. The institution was started in 2005 by the KMR Education Trust, headed by Mr. Marri Laxman Reddy. The Institute has Eleven 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 (India) in the year 2015.

About CSE(AIML) Department:

Department of CSE(AIML) established in 2020 with an intake of 60, increased to 180 in 2021. B.Tech (CSE-AIML) programme combines CSE with functional and operations aspects of AIML. Department has well equipped laboratories with necessary software's and committed, qualified well trained staff for teaching/learning process. Department of CSE(AIML) is consistently exploiting the trending curriculum, teaching, and learning practices, providing scope for the students to acquire knowledge and exploring better opportunities, for those aiming for admissions in prestigious institutions for their higher studies. Department have been conducting workshops, FDP's, STTP's for up-skilling the knowledge.

Coordinators

Dr. M. Srinivas

Ph.D. (IITH), Post-Doc (Academia Sinica, Taiwan and ETS, Canada)
Computer Science and Engineering
National Institute of Technology
WARANGAL – 506 004 (Telangana State)
Email: msv@nitw.ac.in
Ph. No: 08897064421

Dr. K Varada Rajkumar

Associate Professor
Department of CSE(AIML)
MLR Institute of Technology, Hyderabad, India.
Email: drvarada@mlrit.ac.in
Ph. No: 9949949188

G. Sowmya

Assistant Professor
Department of CSE(AIML)
MLR Institute of Technology, Hyderabad, India.
Email: sowmya.g@mlrinstitutions.ac.in
Ph.No: 7780192601