



**ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON  
AI AND ML FOR SCIENCE AND ENGINEERING APPLICATIONS  
(22<sup>nd</sup> July - 2<sup>nd</sup> August 2024) Time: 3 PM to 7 PM  
Organized by  
E & ICT Academy, NIT Warangal  
(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 role is to offer faculty development programmes (FDPs) in standardized courses and emerging areas of Electronics, Information Communication Technologies, training and consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

This FDP is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to **AI and ML for Science and Engineering Applications** is being conducted at **National Institute of Technology, Warangal**. The whole course is handled by academicians and industry experts.

**Major Course Contents:**

- Introduction to AI and ML
- Supervised Learning: Regression, Classification
- Unsupervised Learning: Clustering, Dimensionality Reduction, Association
- Semi-Supervised Learning
- Reinforcement Learning
- Hidden Markov Model
- Deep Learning
- Natural Language Processing
- Non-Stationary Analysis
- Recommendation Systems
- Applications: Pattern Recognition, Fraud Detection, Social Media, Climate Change, Water Resources, Hydrological Extremes, Customer Service, Virtual Assistance, Healthcare, Speech Recognition, Agriculture, Automation, Banks, Financial Services, Chatbots, Video Games, Forecasting, Surveillance, Language Translation, Stock Market, etc.

**Faculty Conducting this Programme:**

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

**Eligibility:**

The program is open to the Faculty of Engineering Colleges, MCA Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

**Registration Fee Particulars:**

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

<b>Online Transfer Details</b>
<b>Account Name: Electronics &amp; ICT Academy NITW</b>
<b>Account No: 62423775910</b>
<b>IFSC: SBIN0020149</b>

**How to Apply:**

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

<https://forms.gle/dn26TyRD83jF9aiB7>

**Selection Criteria:**

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred). The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD/online payment 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 for submission of Application	<b>19/07/2024 (11:59 PM)</b>
Selection List by E- mail	<b>20/07/2024 (11:59 PM)</b>
Duration	<b>22/07/2024 (Monday) to 02/08/2024 (Friday) 03:00 PM to 07:00 PM</b>

**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. programs in various specializations. All B.Tech and M.Tech programs of NIT Warangal are NBA accredited.

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**Coordinators**

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