



# FACULTY DEVELOPMENT PROGRAMME (FDP) ON Harnessing Machine Learning from Fundamentals to Applications (30<sup>th</sup> June - 05<sup>th</sup> July 2025)



**Organized by**  
**Electronics & ICT Academy (Hub), NIT Warangal**

**in association with**  
**E&ICT Academy (Spoke), IIITDM Kurnool, Andhra Pradesh**  
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**VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN, Hyderabad**

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

## About FDP

This Faculty Development Program (FDP) is designed to equip educators and researchers with a comprehensive understanding of machine learning (ML), spanning from core theoretical principles to real-world application development. As machine learning continues to transform industries and academia alike, there is a growing need for faculty members to stay abreast of the latest tools, techniques, and pedagogical strategies in this rapidly evolving field. The FDP aims to foster a research-driven and application-oriented mindset, enabling faculty to integrate machine learning effectively into their teaching curricula and research projects.

## Major Course Content:

- Through a blend of interactive lectures, hands-on labs, and collaborative discussions, participants will explore:
- Foundational Concepts: Understanding the mathematical and statistical underpinnings of supervised, unsupervised, and reinforcement learning.
- Algorithms and Models: In-depth exploration of key ML algorithms such as decision trees, support vector machines, neural networks, and ensemble methods.
- Toolkits and Frameworks: Practical sessions using popular libraries and platforms like Python, Scikit-learn, TensorFlow, and Keras.
- Data Handling and Preprocessing: Best practices in data collection, cleaning, transformation, and feature engineering.
- Model Evaluation and Optimization: Techniques for model validation, performance tuning, and cross-validation.
- Application Development: Developing and deploying end-to-end ML solutions in areas such as image recognition, natural language processing, and predictive analytics.
- Ethical and Responsible AI: Addressing issues related to bias, fairness, and transparency in ML models.

## Experts

The program will be conducted by the faculty members from IIITDM Kurnool, Academicians in the concerned field from IITs/NITs/IIITs/CFTIs/ reputed institutes are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course.

## Fee Particulars

Participants need to pay the Registration Fee Online using the following details

<b>Faculty/Researchers</b>	<b>Rs.1500/-</b>
<b>Industry Participants</b>	<b>Rs.7500/-</b>

## Online Transfer Details

Account Name : **Electronics & ICT Academy NITW**

Account No **62423775910**

IFSC : **SBIN0020149**

Bank and Branch: **State Bank of India, NIT(REC) Warangal**

## How to apply:

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

<https://forms.gle/7zssZvNFW8tkTcff8>

## Selection Criteria:

Selection will be done based on first-come-first-serve basis to a preferable maximum number of 40 (forty). Candidates will be issued satisfactory certificates on successful completion of the course.

## Important Dates:

<b>Last date (Application)</b>	<b>26.06.2025</b>
<b>Selection List by E- mail</b>	<b>27.06.2025</b>
<b>Duration</b>	<b>30.06.2025 to 05.07.2025</b>

## About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a 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 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.

## About IIITDM Kurnool

Indian Institute of Information Technology Design & Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of President of India to the Institutes of Information Technology Act, 2014. IIITDM Kurnool is fully funded by Ministry of Education. IIITDM Kurnool was accorded the status of Institute of National Importance. The campus was inaugurated by Hon'ble Prime Minister on 20th February 2024. The institute is offering B.Tech in CSE, AI&DS, ECE, ME, M.Tech in 6 specialization in Engineering and Ph.D. IIITDM Kurnool students bagged AIR 29 and 42 in GATE 2024.

## About VMTW Hyderabad

Vignans Institute of Management & Technology for Women (VMTW), located in Kondapur (V), Ghatkesar (M), Medchal (D), Telangana, India, was established in August 2008 by Dr. L. Rathaiah, Chairman of Vignans Group of Institutions. With the aim of empowering rural women through quality education, VMTW provides a nurturing environment that fosters academic excellence and professional growth. Affiliated with JNTUH, approved by AICTE, accredited by NAAC with "A+", NBA (CSE & ECE till June 2025), and ISO certified. VMTW offers UG and PG engineering programs. The 5-acre green campus includes modern labs, libraries, hostels, and promotes extracurricular activities for students' holistic development.

## Coordinators

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**Venue: VMTW Campus @ ATF – 305 C&D**