ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Applied Data Science for Real-World Problem Solving

(18 August - 28 August 2026, Time: 3 PM-7 PM)

Organized by

Electronics & ICT Academy, NIT Warangal

In Association with

Department of Computer Science and Engineering, NIT Warangal

Department of Computer Applications, NIT Raipur

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

Preamble:

Electronics & ICT Academy – Phase II was set up at NIT Warangal with financial assistance from MeitY, GoI. 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 Program (FDP) titled **Applied Data Science for Real-World Problem Solving** aims to equip participants with practical knowledge of data-driven techniques and analytical tools for addressing complex real-world challenges. The program emphasizes hands-on learning through data analysis, machine learning, predictive modeling, and data visualization across diverse application domains. It provides participants with the opportunity to develop practical skills in applying modern data science methodologies to solve real-life problems while enhancing their research, teaching, and professional capabilities. The FDP serves as an excellent platform for academicians, researchers, and industry professionals to stay abreast of emerging trends and technologies in data science and their real-world applications.

Major Course Content:

- Introduction to Data Science and Workflow
- Data Preprocessing: Outlier Detection, Class Imbalance Handling, and Feature Selection
- Exploratory Data Analysis (EDA) and Data Visualization
- Supervised Learning: Regression, Nearest Neighbor-Based Classification, and Decision Trees
- Unsupervised Learning: Clustering Algorithms
- Dimensionality Reduction Techniques and Their Applications
- Deep Learning Essentials: Neural Networks and Beyond
- Natural Language Processing: From Text to Insights
- Recommendation Systems
- Large Language Models (LLMs)
- Data Science Using Open-Source Tools
- Security Aspects in Data Science Applications
- Implementation, Case Studies, and Evaluation

Faculty Conducting This Programme:

The program will be led by faculty of NIT Warangal and NIT Raipur, with invited lectures from esteemed academicians in the relevant fields from IITs, NITs, IIITs, and Foreign Universities. Additionally, professionals from industries and R&D laboratories will be invited to take the session by sharing their practical insights and industry experience related to the topics.

Registration Fee Particulars:

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

Faculty and Research Scholars	**Rs. 500/-**
Industry Participants	**Rs. 1500/-**

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 in the online registration form by clicking on the following link: **https://forms.gle/69q3vtBZhc8ZrCEr8**

Selection Criteria:

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

Important Dates:

Last date (Application)	**15-08-2026**
Selection List by E- mail	**16-08-2026**
Duration	**18-08-2026 to 28-08-2026**
Timing	**3 PM to 7 PM**

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 BTech. degrees in various branches of engineering, MTech., and Ph.D. programs in various specializations. All B. Tech and M. Tech programs of NIT Warangal are NBA accredited.

About NIT Raipur: National Institute of Technology Raipur is a central government-funded technical institute and Institute of National Importance located in Raipur, Chhattisgarh, India. Established in 1956 as the Government College of Mining and Metallurgy, it was elevated to National Institute of Technology status in 2005. The institute offers a wide range of undergraduate, postgraduate, and doctoral programs in engineering, sciences, architecture, and management. Spread over a 100-acre campus, NIT Raipur focuses on academic excellence, research, and industry collaboration, preparing skilled professionals and contributing to regional and national technological development.

Coordinators:

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