



Electronics & ICT Academy
IIT Roorkee



सत्यमेव जयते

An Initiative of
Ministry of Electronics
& Information
Technology (MeitY)
Government of India

A Faculty Development
Program
on

**ML Applications for Academic
and Industrial Research**

In association with

**CMR Engineering College,
Hyderabad**

Feb 21 - Feb 25, 2025

Register Before: Feb 19, 2025



Why this course ?

The FDP on ML Applications for Academic and Industrial Research equips participants with a comprehensive understanding of machine learning principles and their diverse applications. This course emphasizes practical exposure and hands-on experience in domains such as healthcare, social media, forensics, and more. Designed to foster innovation, it bridges the gap between academic knowledge and real-world challenges. By exploring cutting-edge ML techniques and tools, participants gain the skills to conduct impactful research and develop solutions for complex industrial and societal problems.

Prerequisites

No experience is required, but fundamental knowledge of any programming language would be helpful.

Objectives of the course

- Introduce foundational concepts and algorithms of machine learning.
- Explore the application of ML techniques in various academic and industrial domains.
- Provide insights into supervised and unsupervised learning models.
- Enhance practical understanding through hands-on lab sessions.
- Discuss the role of ML in healthcare, forensics, and social media analytics.
- Equip participants with tools for real-time ML model development and cloud deployment.
- Foster innovation and research capabilities in ML applications.

Focus Areas

- Core ML algorithms and their research perspectives.
- Application of ML in healthcare, social media, and forensics.
- Supervised and unsupervised learning methodologies.
- Real-time data processing and classification using ML.
- Practical implementation of ML in cloud environments.
- Development and deployment of ML models for academic research.
- Emerging ML tools and techniques for industrial applications.

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Venue: Hybrid Mode: CMR Engineering
College, Hyderabad



Course Outcomes

Participants are likely to:

- Develop a deep understanding of ML principles and techniques.
- Apply ML models to solve real-world problems across domains.
- Gain hands-on expertise in Python programming for ML.
- Design and implement supervised and unsupervised learning models.
- Build and deploy ML models in cloud and real-time environments.
- Enhance teaching and research skills in machine learning.
- Contribute to innovation in both academic and industrial research with ML applications.



Experts from Academia/Industry

Who Should Register?

Any Interested Faculty/PhD-Scholars
UG/PG/ & Industry Persons can register

Registration Fee

Fees: ₹ 250/- Faculty/Research Scholar/
Students

₹ 500/- Industry/Others

Note: Refund will be done in case of course
cancellation only, with in 20 working days

FDP Kits & Refreshment will be provided

How to make Payment

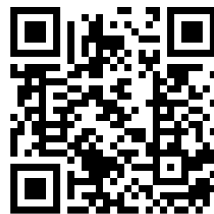
Please make the payment first using the below link
upload the payment receipt when filling out the
Google registration form

<https://eict.iitr.ac.in/instruction-for-payment/>

Conference Code: EICTIITR-FDP-25-23

Registration Link

<https://forms.gle/UuNcudEWKsgphrd18>



Scan QR for
registration

Register before:
Feb 19, 2025

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Who may benefits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Industry and Startups.
- Reasearch Scientists and Technical Staff.



This certificate can be considered in
alignment with other Quality Improvement
Programs (QIP) as well as **NBA** and **NAAC** for
recognition/credit.

Principal Investigator

Prof. Sanjeev Manhas
ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Dr. M. Kumara Swamy CMR
Engineering College, Hyderabad
- Dr. C. Syamsundar, CMR
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