

# A Faculty Development Program

on

**Generative AI:**

**Foundations, Applications,  
and Future Directions**

**Nov 18 - Nov 22, 2024**

under the aegis of



**Electronics & ICT Academy  
IIT Roorkee**

**Supported by**

**Ministry of Electronics & Information  
Technology  
Government of India**



**Experts from Academia/Industry**

**Registration Fee**

Fees: ₹ 500/participant, non-refundable  
(Applicable for all)

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



**Hybrid Mode: Delhi Technical  
Campus, Greater Noida**

## Why this course ?

The program offers a deep dive into machine learning, covering fundamentals, advanced techniques like deep learning, and applications in computer vision and natural language processing. Practical sessions focus on real-world datasets in healthcare, finance, and smart cities for tasks like predictive modeling, fraud detection, and traffic management. Ethical considerations, including AI's impact on privacy and bias, are also addressed to ensure responsible development. This comprehensive approach equips participants to effectively apply machine learning techniques and drive innovation in their fields.

## Objectives of the course

- Empower participants with machine learning skills and knowledge.
- Demystify AI complexities and highlight its potential.
- Foster innovation in academia and beyond.
- Build a community of AI-proficient educators and researchers.
- Prepare participants to shape future technology and society.

## Course Features

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

## Focus Areas

- Introduction to Machine Learning and Deep Learning
- Neural Networks and Deep Learning Architectures
- Advanced Deep Learning Techniques
- Reinforcement Learning and Autonomous Systems
- Generative and Responsive AI
- Industry-Specific Applications

## Prerequisites

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

## Registration Link

<https://forms.gle/QcdR4P8fHwCMmSWi6>

## How to make payment

<https://eict.iitr.ac.in/instruction-for-payment/>  
Conference Code: EICTIITR-FDP-24-14

## Principal Investigator

**Prof. Sanjeev Manhas**  
**E&ICT Academy IIT Roorkee**

## Course Coordinators

- Prof. Sanjeev Manhas, ECE Department IIT Roorkee
- Dr. K.K Singh, Director, Delhi Technical Campus, Greater Noida

## Reach Us:

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