Electronics & ICT Academy
IIT Roorkee

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

सत्यमेव जयते

A Faculty Development Program
on
Recent Advances in Deep Learning

In association with

NETAJI SUBHASH ENGINEERING COLLEGE, WEST BENGAL

Feb 05 – Feb 14, 2025

(03:30 PM to 09:00 PM)

Register Before: Feb 03, 2025

Venue: Hybrid Mode: ECE Dept. NETAJI SUBHASH ENGINEERING COLLEGE, WEST BENGAL

Why this course ?

Deep learning has revolutionized modern AI, enabling advancements in neural networks, computer vision, NLP, and more. This FDP focuses on recent advances in deep learning, including quantum neural networks and pedagogical techniques. With expert lectures from top institutions and hands-on Python programming sessions, participants will gain cutting-edge knowledge and practical skills to tackle real-world challenges in deep learning research and applications.

Prerequisites

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

Objectives of the course

- To understand the fundamentals and advanced concepts in deep learning.
- To explore architectures like CNN, LSTM, GRU, and quantum neural networks.
- To gain hands-on experience in Python programming for neural networks.
- To understand the optimization techniques in neural networks.
- To explore recent advancements in neural network architectures.
- To enhance teaching methodologies for deep learning concepts.

Focus Areas

- Fundamentals of deep learning and optimization techniques.
- Convolutional and deep neural network architectures.
- Quantum neural networks and their applications.
- Advanced architectures like LSTM and GRU networks.
- Hands-on Python programming for neural networks.
- Pedagogical methods for teaching deep learning.
- Industry insights on deep learning 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

Course Outcomes

Participants are likely to:

- Comprehensive understanding of deep learning fundamentals and advancements.
- Practical skills in implementing neural networks using Python.
- Knowledge of quantum neural networks and their emerging role in AI.
- Ability to design and optimize advanced neural network architectures.
- Insight into state-of-the-art applications of deep learning.
- Enhanced teaching approaches for deep learning topics.
- Preparedness for industry and academic challenges in AI and deep learning.

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-25-16

Registration Link

https://forms.gle/KWKnLRxhEn9GDs1T7

Scan QR for registration

Register before:
Feb 03, 2025

Click below icons to follow us on:

Who may benifits

- 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. Swagata Roy Chatterjee, Department of ECE, Netaji Subhash Engineering College, West Bengal

Spoke Centre Coordinators

1. Dr. Manash Chanda, Meghnad Saha Institute of Technology, Uchhepota Kolkata
2. Dr. Swagata Paul, Techno International New Town, Kolkata

Reach Us:

M.No.: 8112766397
Landline No.: +91-1332286457
Email: eict@iitr.ac.in