FACULTY DEVELOPMENT PROGRAM ON
APPLIED DEEP LEARNING
PHASE-II

18/06/2024 – 29/06/2024

ORGANISED
BY
DEPARTMENT OF INFORMATION TECHNOLOGY
ARMY INSTITUTE OF TECHNOLOGY, DIGHI HILLS, PUNE-411015

ABOUT AIT

AIT was founded in 1994, as a result of the vision, and untiring efforts of Late Gen B.C. Joshi PVSM, AVSM, ADC for the children of all ranks of the Indian Army. The beautiful campus, serene ambience and architectural splendor, state of the art infrastructure, all provide vital ingredient for a delectable academic environment for development of total quality engineers. AIT is ranked in TOP 200 Colleges in NIRF across India. AIT runs Under graduate courses in Comp. Engg., IT, Mech, E&TC and Post Graduate course in Data Science. All courses are affiliated to SPPU. All UG Courses are NBA accredited.

ABOUT DEPARTMENT

The Department of Information Technology was established in the year 2001 with an intake of 120 students. The department believes in shaping the students in such a manner that they are readily absorbed by the corporate and other professional organizations. The department continues to conquer new frontiers of knowledge through quality research works, conferences, QIPs and FDPs, for enhancing the Teaching Learning Process. The department is a pioneer in establishing CSI and NPTEL student branches.

ABOUT FDP

The Department of Information Technology takes immense pride in organizing a Faculty Development Programme (FDP) on "Applied Deep Learning" from 12th Jan to 17th Jan 2024. The FDP intends to facilitate up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers, researchers and students employed in disciplines of Engineering. FDP is designed to provide insight and interactions on Deep Learning techniques along with hands-on practical sessions.

OBJECTIVE

This FDP titled "Applied Deep Learning" aims:

- A Deep Learning Faculty Development Program aims to provide educators and faculty members with the necessary knowledge, skills, and resources to effectively teach and incorporate deep learning concepts into their curriculum & research.

- Understanding Fundamentals: To provide participants with a solid understanding of the fundamental concepts, theories, and principles of deep learning, including neural networks, optimization algorithms, backpropagation, and activation functions.

- Hands-on Experience: To offer hands-on experience and practical training in implementing deep learning models using popular frameworks like TensorFlow or PyTorch. This includes coding exercises, projects, and workshops to reinforce theoretical concepts.

- To explore application in areas such as computer vision, natural language processing, speech recognition, recommender systems and robotics.

- To keep participants up-to-date with the latest research trends, advancements and breakthroughs in the field of deep learning.

TARGETED PARTICIPANTS

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions.

Certification will be awarded based on the attendance and performance in the test,

CHIEF PATRON	PATRON	CONVENOR	COORDINATOR	CO-COORDINATOR
Brig. Abhay Bhat (Retd.) Director , AIT	Dr. B P Patil Principal, AIT	Dr. Mrs Sangeeta Jadhav Head IT Dept. , AIT	Dr. Ashwini Sapkal Associate Prof., IT Dept.	Dr. Dipika Birari Assistant Prof. IT Dept.

Topic/Course Content

- **Inauguration and Keynote Speech on Medical application using DL**
- **Encoder - Decoder and it's types**
- **RN/LSTM/GRUAnd It's application**
- **Practical based on encoder - decoder**
- **Introduction to attenation model and it's application**
- **Advanced attention model**
- **Practical application based on attention model**
- **BERT Theory and it's application**
- **Article Discussion**
- **Practical application of BERT**
- **Hands on session BERT model**
- **Transformer**
- **Transformer and it's application**
- **Practical sessions of Transformer**
- **Application of Deep Learning in computer vision and NLP**
- **Hands on Session based on computer vision and NLP**
- **Hands on Session on Application of deep Learning**
- **MCQ, Feedback & Interactions**
- **Valedictory Session**

Speakers

- **Prof. Manikandan Narayanan,** Assoc. Prof. , CSE , IIT Madras
- **Prof. Harish Guruprasad,** Asst. Prof. , CSE , IIT Madras
- **Mr. LN Pandey,** ML Engineer, Innovation R&D, Mavrick Quantum MTX
- **Mr. Prince,** Research Engineer, IBM Research Lab
- **Dr. Dinesh Khandelwal,** Senior Research Scientist, IBM Research Lab
- **Mr. Jay Paranjpe,** Research Scholar, Johns Hopkins University
- **Mr. Bhushan Muthiyan,** Chief Executive Officer, Automaton AI Infosystem Pvt. Ltd.
- **Mr. Abhijay Ghildyal,** PhD. Research Scholar ,Portland University

CONTACT DETAILS

📞 **+91 8767211373**

✉ **dipikabirari@aitpune.edu.in**

🌐 **www.aitpune.com**