



**MALAVIYA MISSION
TEACHER
TRAINING PROGRAMME**



Online Refresher Course

On

AI & Machine Learning Mastery: A Practical Refresher Course

14 - 26 October, 2024

Supported by

**Malaviya Mission
Teacher Training Program (MM-TTP)
Ministry of Education, Government of India**

Organized by

**Centre for Faculty Development &
Technology
Indian Institute of Technology
(Banaras Hindu University)
Varanasi, UP, India**

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Centre for Faculty Development & Technology, Indian Institute of Technology (BHU) Varanasi is organizing an Online Refresher Course on “AI & Machine Learning Mastery: A Practical Refresher Course” under Malaviya Mission Teacher Training program (MM-TTP) from 14th – 26th October, 2024.

Overview

The “AI & Machine Learning Mastery: A Practical Refresher Course” is a two-week comprehensive program designed to equip faculty members with a strong foundation in Artificial Intelligence (AI) and Machine Learning (ML). Through interactive sessions, real-world case studies, and hands-on projects, participants will develop an understanding of AI/ML techniques, tools, and their applications across various domains. This course aims to provide educators with the skills to integrate AI/ML in their teaching, research, and to facilitate innovative, interdisciplinary projects.

Objective

The objective of this refresher course is to provide:

- ◆ A solid foundation in AI and ML concepts, techniques, and algorithms.
- ◆ Practical skills in applying AI/ML tools and frameworks (e.g., Python, TensorFlow, Scikit-learn).
- ◆ Competence in teaching AI/ML to undergraduate and postgraduate students.
- ◆ A deep understanding of AI/ML applications across different industries.
- ◆ Knowledge of ethical implications and the societal impact of AI technologies.

Coordinators

❖ **Dr. Shyam Kamal**

Coordinator
Centre for Faculty Development and Technology
IIT (BHU) Varanasi

❖ **Dr. Ajit K. Mishra**

Co-Coordinator
Centre for Faculty Development and Technology
IIT (BHU) Varanasi

**Free Registration
Recognised by UGC for CAS
No Registration Fee**

Who Can Apply?

All faculty members working in Government/Private Universities /Colleges anywhere in India under section 2(f) are eligible.

How to Register?

Step I: Participant Registration:

1. For first-time registration, visit the website: <https://mmc.ugc.ac.in/registration/Index>, fill in the necessary details.
2. A confirmation e-mail with username and password will be sent to registered email ID.

Step II: Register for the Training Programme:

1. **Login as a Participant** by using your username and password. **Change** your password on first login.
2. **Again Login with change Password**
3. On Left Side Click on **Apply for Refresher Course**
4. **Select Apply For: Refresher Course**
5. **Select month & Year: October 2024**
6. **Select Center Name: Indian Institute of Technology (BHU) Varanasi (14/10/2024 - 26/10/2024),**
7. **Select Title: “AI & Machine Learning Mastery: A Practical Refresher Course”**
8. Fill other details
9. Click on submit.

Registration Deadline

13 October, 2024

Mode of selection

Selection of participants will be done by the organizing committee.

Certification

Participants are required to attend all sessions.

E-certificates will be issued to participants only on successful participation in the programme and qualified the MCQs TEST Examination (MCQs TEST will be conducted during/at the end of program.)

Programme Schedule

Timing: 10am to 5pm

Week 1: Foundations of AI & Machine Learning

Day 1: Introduction to Artificial Intelligence & Machine Learning

Day 2: Machine Learning Concepts & Algorithms (Part 1)

Day 3: Machine Learning Concepts & Algorithms (Part 2)

Day 4: Neural Networks and Deep Learning

Day 5: AI and Data Preprocessing

Day 6: Introduction to Natural Language Processing (NLP)

Week 2: Advanced AI/ML Techniques and Applications

Day 7: Reinforcement Learning and Decision Making

Day 8: AI in Computer Vision

Day 9: AI for Time Series Forecasting

Day 10: AI/ML in Industry Applications

Day 11: AI Ethics and Societal Impact

Day 12: Capstone Project Presentations & Feedback

Centre for Faculty Development & Technology, IIT (BHU) Varanasi

A Centre named ‘Teaching Learning Centre (TLC)’ was initiated by the Institute in July 2013 to strengthen the teaching environment of the institute and to organize several programmes to enhance teaching-learning processes. It covers all aspects of teaching, pedagogy, laboratory projects, assessment, course delivery, course design, e-learning, sharing best practices in teaching- learning, faculty development programmes, etc. Currently Teaching learning Center becomes **Centre for Faculty Development & Technology.**

For further assistance, please contact

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