Dr. D.Y. Patil Pratishthan's

Dr. D. Y. Patil Institute of Management Studies

(Approved by AICTE, recognized by Govt. of Maharashtra and affiliated to Savitribai Phule Pune University)

7-DAY
NATIONAL LEVEL ONLINE FDP ON

MACHINE LEARNING & AI

Registration Fees: Rs 1000/-

E-certificate

OBJECTIVES:

Faculty Development Program (FDP) focused on AI and Generative Models to enhance the knowledge and skills of faculty members, researchers and professionals in the field of Artificial Intelligence and Generative Models.

- **Dates:** Jan 25, Feb 1, 2, 8, 9, 15, 16, 2025
- **Timings:** 10 am to 1.00pm & 2.00pm to 5.00pm
- **Bank Name:** HDFC Bank
- **A/c Name:** Dr D Y Patil Institute of Management Studies
- **A/c No:** 50100114421089
- **IFSC Code:** HDFC0000007
- **Branch:** Bhandarkar Road, Pune

SPEAKERS

MR. SANTANU CHATTERJEE

DR. SHANTANU PATHAK

DIRECTOR

DR. KULDIP CHARAK

Registration Link: https://forms.gle/DNrujcQuL6x6Lh7b9

7-DAY
NATIONAL LEVEL ONLINE FDP ON
MACHINE LEARNING & AI (HANDS-ON)

Date	Time	Topics
25th Jan 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Introduction to ML & Gen AI: Rise, Usage and Applications • Introduction to sklearn library • Preprocessing using pandas Session II: • Basic ML Unsupervised Learning algorithms and their evaluation • Lab Practice & Assignments
1st Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • ML Supervised Learning algorithms • Regression • Classifcation Session II: • Evaluation of ML algorithms • Regularization in ML • Bias Variance Tradeoff • Lab practice
2nd Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Fundamentals of Deep Learning • Hyper parameter tuning (like Activation functions, Optimizers, epoch, batch size) • Maths of Deep Learning and Gen AI (dot product, matrix operations in NN) Session II: • Introduction to Tensorflow, Keras, Pytorch • Case Studies on Deep Learning applications • Regularization methods • Lab Practice & Assignments
8th Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Convolutional Neural Networks • RNN & LSTM introduction • Application of NN in time series data Session II: • Auto-Encoder • Variational Auto Encoder (VAE) • Lab practice
9th Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Basics of text processing • Lexical processing, Syntax and Semantics, Other problems in text analytics Session II: • TF-IDF, Word2Vec, Word embeddings • RNN/LSTM for sentiment analysis
15th Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Transformer introduction • Transformer architecture Session II: • seq2seq models • BERT model • BERT Case study on NLP (Sentiment Classification/ Sentence classification, etc.) • Lab practice
16th Feb 2025	10 am to 1.00pm & 2.00pm to 5.00pm	Session I: • Working of Generative Adversarial Neural Networks • Lab of GAN Session II: • LLM Introduction • Working of GPT • RAG • Prompt Engineering • Lab of various GenAI models for RAG and prompt engineering

Registration Link: https://forms.gle/DNrujcQuL6x6Lh7b9