



LIVE LECTURES

**DIPLOMA IN ARTI FICIAL
INTELLIGENCE &
MACHINE LEARNING**

Live Course (Live Lectures)

COURSE OVERVIEW

This course is designed for aspiring professionals looking for a career transition into the AI & ML space, who have basic programming skills, an interest in technology, and an analytical bent of mind. The learners will get acquainted with the fundamentals of Python, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, and Deployment of a cloud platform.

COURSE OBJECTIVE

At the end of this course learners will expand their knowledge in:

1. How to discover patterns in the user data and then make predictions based on these intricate patterns for answering business questions and solving business problems.
2. How to make machines learn using different ML algorithms.
3. How to develop interaction between humans and computers using natural language.
4. How to enable computers and systems to derive meaningful information from digital images, videos, and other visual inputs
5. How deploying an application through one or more hosting models—software as a service (SaaS), platform as a service (PaaS), and/or infrastructure as a service (IaaS) can be implemented.

COURSE SKILL SET

- Demand for AI-ML skills is escalating as businesses become more aware of how this technology may enhance their workflows
- Effective AI professionals will be in high demand and could find jobs in a broad range of industries
- Skills you will gain with this course Programming Languages Python
- Linear Algebra
- Calculus
- Statistics
- Applied Math and Algorithms
- Machine Learning
- Neural Network Architectures
- Audio and Video Processing
- Computer Vision
- Signal Processing Techniques
- Cloud deployment basics



PROGRAM HIGHLIGHTS

- Instructor- Dr. Priti Maheshwary
- Instructor- Dr. Pooja Bijlani
- Duration – 6 Months
- Eligibility- Any graduate with a Science stream
- No. of Modules- 9 modules + 1 Project
- Language-English
- Shareable certificate- Yes
- Webinar- Yes

PROGRAM SYLLABUS

Paper 1

Paper 1- Live Lecture 1

Chapter – 1 Introduction to Artificial Intelligence

Chapter – 2 Introduction to Machine Learning

Chapter – 3 Introduction to Deep Learning

Chapter – 4 Real-World Applications of AI/ML

Chapter – 5 Ethics in Machine Learning

Chapter – 6 Evaluation of Machine Learning codes

Paper 2

Chapter – 1 Python Statistics Libraries

Chapter – 2 Vectors

Chapter – 3 Matrix

Chapter – 4 Probability and Statistics

Chapter – 5 Descriptive Statistics

Chapter – 6 Random Numbers

Paper 2

Chapter – 1 Introduction to Python

Chapter – 2 Python Language Syntax & Data Types

Chapter – 3 Conditions/Loops

Chapter – 4 Libraries in Python

Chapter – 5 Numpy

Chapter – 6 Panda

Chapter – 7 Data Story Telling

Chapter – 8 Data Acquisition

Chapter – 9 Data Cleaning and Preprocessing

Chapter – 10 Data Manipulation Using Excel

Chapter – 11 Data Manipulation using MySQL

Chapter – 12 Advance Queries

Chapter – 13 Data Visualization Using Python

Chapter – 14 Data Visualization Using PowerBI

PROJECT

Diploma in Artificial Intelligence & Machine Learning Project Submission



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