

AI Excellence Program Course

Course Duration : 40 Hours

Course code : AI-EXL-929

1. Course Overview

The AI Excellence Program Course is designed to provide a comprehensive and advanced understanding of Artificial Intelligence concepts, tools, and real-world applications. This program focuses on building strong foundations in AI while progressing toward advanced topics such as machine learning, deep learning, and intelligent automation.

2. What you'll learn?

- Fundamentals and advanced concepts of Artificial Intelligence
- Machine Learning and Deep Learning techniques
- Natural Language Processing (NLP) basics
- Computer Vision applications
- Data preprocessing and model evaluation
- AI tools and frameworks (Python, TensorFlow basics)

3. Target Audience

- Students and fresh graduates
- IT professionals and developers
- Data analysts and aspiring data scientists
- Engineers and technical professionals
- Anyone interested in AI and emerging technologies

4. Pre-Requisites

- Basic knowledge of programming (Python recommended)
- Understanding of mathematics (statistics & linear algebra basics)
- Familiarity with computers and data handling
- Interest in Artificial Intelligence

5. Course Content (Modules)

Module 1: Introduction to Artificial Intelligence

- AI concepts and history
- Types of AI
- Real-world applications

Module 2: Machine Learning Fundamentals

- Supervised and unsupervised learning
- Regression and classification
- Model evaluation techniques

Module 3: Deep Learning & Neural Networks

- Introduction to neural networks
- Deep learning concepts
- Tools and frameworks

Module 4: NLP & Computer Vision

- Text processing and NLP basics
- Image processing fundamentals
- Use cases and applications

Module 5: Projects & AI Implementation

- Real-world AI projects
- Model deployment basics
- Ethical AI and best practices