



AI Course

Duration: **Fast-Track Training Program - 6 Weeks**

Best For : College students, freshers

Build strong AI fundamentals + at least **1 working project**.

Highly suitable for software development roles in **IT companies, startups, product-based firms, and freelancing projects**.

Week 1 – Introduction to AI & Real-World Applications

Explanation: Students understand what AI really is, how it works, and where it is used.

What is AI? Difference between AI, ML & Data Science

History & evolution of AI

AI in real life: Google, Netflix, ChatGPT, self-driving cars

Narrow AI vs General AI

Career opportunities in AI

Practical:

Explore AI tools (ChatGPT, Gemini, Copilot)
Identify AI use cases in daily life

Week 2 – AI Tools & Prompt Engineering

Explanation: Students learn how to use AI tools effectively with correct prompts.

Introduction to Generative AI
Prompt engineering basics
Writing effective prompts
Text, image & code generation
AI tools for productivity (content, resume, email, research)

Practical:

Create AI prompts for content & business tasks
Build prompt templates

Week 3 – Basics of Python for AI

Explanation: Students learn Python fundamentals required for AI.

Python overview & setup
Variables, data types, loops
Functions & modules
Lists, dictionaries, tuples
Introduction to Jupyter Notebook

Practical:

Python practice programs
Simple data handling scripts

Week 4 – Introduction to Machine Learning

Explanation: Students understand how machines learn from data.

- What is Machine Learning?
- Supervised vs Unsupervised learning
- Training data vs testing data
- Regression & classification (concept)
- ML applications

Practical:

- Simple ML demo (conceptual / tool-based)

Week 5 – AI + Data Basics

Explanation: Learn how data powers AI models.

- What is data? Types of data
- Data cleaning basics
- Introduction to NumPy & Pandas
- Reading CSV files
- Basic data analysis

Practical:

- Data analysis on sample dataset

Week 6 – Mini AI Project & Career Awareness

Explanation: Students combine learning into a small project.

- AI project workflow
- Mini project using AI tools or Python
- AI ethics & limitations
- Career paths in AI
- Resume guidance for AI beginners

Mini Project:

AI chatbot (tool-based) OR
Data analysis mini project

★ Final Outcomes After 6 Weeks

Students will be able to:

Clear understanding of AI & ML
Python basics
Ready for advanced AI learning

★ Why Popular

- High demand in IT companies
- AI Approach Globally
- Perfect for full-stack jobs & freelancing

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