

# Understanding AI, ML, and Generative AI for Beginners

## Table of Contents

**Duration: 2.5 hrs**

**Demonstration to various AI tools**

### **1. Introduction to AI & Generative AI**

- What is AI?
- Evolution of AI: Key Breakthroughs
- AI vs. Generative AI

### **2. Understanding Machine Learning (ML)**

- Basics of Machine Learning
- Types of ML: Supervised, Unsupervised Learning
- Deep Learning and Neural Networks

### **3. Generative AI: Creating New Content**

- What is Generative AI?
- How Generative AI Works
- Examples: ChatGPT, DALL-E, Microsoft Copilot

### **4. AI Applications in Daily Life**

- Virtual Assistants (Siri, Alexa)
- Recommendation Systems (Netflix, Amazon)

### **5. Prompt Engineering: Getting the Best from AI**

- What is a Prompt?
- Writing Effective Prompts
- Practical Examples

### **6. Ethics & Responsible AI Use**

- AI Bias & Real-World Case Studies
- Transparency & Explainability
- Safety, Privacy, and Data Security

## **7. Practical Use Cases & Future Opportunities**

- AI in Marketing & Content Creation
- AI for Software Development & Coding
- AI's Role in Education & Healthcare

## **8. Future of Generative AI**

- Trends and Emerging Technologies
- Career & Business Opportunities in AI

## **9. Hands-on Demo & Q&A**

- Live Interaction with AI Tools
- Open Discussion and Wrap-up