Understanding AI, ML, and Generative AI for Beginners

Duration: 2.5 hrs

Overview

This course provides beginners with a clear and engaging introduction to Artificial Intelligence (AI) and Generative AI. Starting with the basics of AI, participants will explore its evolution and differences from Generative AI. It also simplifies complex concepts like Machine Learning (ML) and neural networks, ensuring a solid foundation for newcomers. Learners will discover how Generative AI creates new content, with real-life examples like ChatGPT and Microsoft Copilot, and gain insights into practical AI applications such as virtual assistants and recommendation systems. Essential skills in crafting effective prompts are discussed along with ethics and responsible AI use. The session wraps up with an interactive hands-on demo of AI tools and a Q&A, ensuring participants leave with practical knowledge and confidence to explore AI further. Perfect for beginners, the course blends theoretical concepts with real-world applications to make learning accessible and enjoyable.

Course Agenda

Module 1: Introduction to AI & Generative AI

- What is AI?

- Evolution of AI: Key Breakthroughs

- AI vs. Generative AI

Module 2: Understanding Machine Learning (ML)

- Basics of Machine Learning

- Types of ML: Supervised, Unsupervised Learning

- Deep Learning and Neural Networks

Module 3: Generative AI: Creating New Content

- What is Generative AI?

- How Generative AI Works

- Examples: ChatGPT, DALL-E, Microsoft Copilot

Module 4: AI Applications in Daily Life

- Virtual Assistants (Siri, Alexa)

- Recommendation Systems (Netflix, Amazon)

Module 5: Prompt Engineering: Getting the Best from AI

- What is a Prompt?

- Writing Effective Prompts

- Practical Examples

Module 6: Ethics & Responsible AI Use

- AI Bias & Real-World Case Studies

- Transparency & Explainability

- Safety, Privacy, and Data Security

Module 7: Practical Use Cases & Future Opportunities

- AI in Marketing & Content Creation

- AI for Software Development & Coding

- AI's Role in Education & Healthcare

Module 8: Future of Generative AI

- Trends and Emerging Technologies

- Career & Business Opportunities in AI

Module 9: Hands-on Demo & Q&A

- Live Interaction with AI Tools

- Open Discussion and Wrap-up