Faysal Aziz

Exploring Generative AI

One day exploratory course

FA-0205 · One day

Agentic & Generative AI

Introduction

This one-day immersive course that uncovers the fascinating world of generative artificial intelligence. Generative AI represents one of the most innovative branches of AI technology, with the power to create new content, from images and text to music and beyond, that mimics human-like creativity.

As we stand on the brink of a new era where AI's creative capabilities are beginning to complement and even enhance human creativity, this course offers a deep dive into the mechanisms, applications, and ethical considerations of generative AI technologies.

Ideal for innovators, creatives, and tech enthusiasts, this workshop aims to elucidate how generative AI can be leveraged for artistic creation, product innovation, and solving complex problems in novel ways.

Learning outcomes

By the end of this course, participants will:

- Gain a solid understanding of what generative AI is and how it works.
- Explore the various applications and potential of generative AI across different sectors.
- Understand the technical foundations behind popular generative AI models.
- Learn about the ethical implications and considerations of using generative AI.
- Acquire practical experience with generative AI tools and platforms.

Prerequisites

For an optimal learning experience, participants should have:

- Basic knowledge of artificial intelligence and machine learning concepts.
- An interest in the applications of AI in creativity, innovation, and problem-solving.

- No specific technical or programming skills are required, but a willingness to engage with new technologies is essential.

Training outline

1. Introduction to Generative AI

1. Defining generative AI: From GANs to transformers
2. Historical evolution and milestones in generative AI
3. Understanding the mechanics: How generative AI creates new content

2. Applications of Generative AI

1. Creative arts: Music, literature, and visual arts
2. Business and innovation: Product design, marketing, and personalized content
3. Science and research: Data augmentation, simulation, and prediction

3. Technical Foundations

1. Overview of key generative AI models: GANs, VAEs, and large language models
2. The role of data in training generative AI models
3. Introduction to the concept of latent space and its importance

4. Hands-On with Generative AI Tools

1. Demonstrations of popular generative AI platforms and tools
2. Guided practical session: Participants create their own generative AI project
3. Tips and best practices for working with generative AI

5. Ethical Considerations and Future Outlook

1. Addressing bias and fairness in generative AI
2. Intellectual property and copyright issues
3. The future of work: Augmentation vs. automation
4. Visioning the future: Emerging trends and potentials in generative AI

This course is designed to be highly interactive and engaging, combining expert-led presentations with hands-on activities, demonstrations, and discussions. By the end of the day, participants will not only have a foundational understanding of generative AI but will also have experienced firsthand the creative and

innovative potential of this groundbreaking technology. Whether you're a creator looking to explore new mediums, a business professional interested in cutting-edge AI applications, or simply curious about the future of AI, this course will offer valuable insights and skills.

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