Faysal Aziz

Exploring Artificial Intelligence

One day course for Managers and non-technical decision makers

FA-0204 · One day

Agentic & Generative AI

Introduction

This one-day course is designed to demystify Artificial Intelligence for non-technical mid-level and senior managers. This course aims to provide you with a foundational understanding of AI, its capabilities, limitations, ethical considerations, and its potential impact on your industry. By exploring real-world applications, current trends, and future possibilities, you will gain the insights needed to navigate the AI landscape effectively and make informed decisions for your organization.

This course is designed to be interactive, with discussions, case studies, and group activities throughout the day to ensure engagement and facilitate learning.

Learning outcomes

By the end of this course, participants will be able to:

- Define Artificial Intelligence and understand its key components.
- Identify the potential and limitations of AI in business and society.
- Recognize the ethical considerations and threats posed by AI.
- Explore AI applications in various industries.
- Understand the basics of how AI technologies are developed and deployed.
- Understand the workings and applications of Generative AI, including ChatGPT, Gemini, and Midjourney.
- Develop strategies for implementing AI solutions in their organizations.
- Anticipate future trends and developments in AI.

Prerequisites

- Basic understanding of business processes and strategies.
- Open-mindedness and willingness to engage with new technologies.
- No technical background in AI or computer science is required.

Training outline

1. Introduction to AI

1. What is AI? History and Evolution
2. Key Concepts: Machine Learning, Deep Learning, Neural Networks
3. Types of AI: Narrow AI vs. General AI
4. LLM - And all the hype!

2. AI in Business and Society

Real-world Applications of AI

1. Marketing and Customer Service
2. Operations and Supply Chain Management
3. Human Resources and Recruitment

2. Impact of AI on Employment and the Workforce

Ethical Considerations and Social Responsibility

1. Bias and Fairness
2. Privacy and Security

3. Understanding AI Technologies

1. How AI Works: An Overview of AI Development
2. Data Science and AI: The Role of Big Data
3. Introduction to Natural Language Processing (NLP) and Computer Vision

4. Generative AI Technologies

1. Exploring Generative AI: ChatGPT, Gemini, Midjourney
2. Capabilities and Limitations of Generative AI
3. Practical Applications: Content Creation, Design, Decision Support

Crafting Effective Prompts

1. Precision and Clarity: How specificity influences model responses.
2. Iterative Design: Refining prompts based on initial outputs.
3. Contextual Prompts: Providing background or context for more accurate model replies.
4. Fine Tuning: Participants will observe tailored prompts that extract desired information or responses from LLMs.

5. Hallucinations and how to prevent them.

5. GPT Wrappers and API Interaction

1. Overview of GPT wrappers for Python
2. RAG Alternatives - brainwashing the LLM
3. Personal and context

6. Implementing AI in Your Organization

1. Identifying Opportunities for AI Integration

   Challenges and Considerations in AI Adoption

   1. Technical Infrastructure
   2. Talent and Expertise
   3. Cost and ROI

3. Best Practices for AI Project Management
4. Building an actual LLM

7. The Future of AI

1. Emerging Trends in AI Technology
2. AI and the Future of Work
3. Preparing for an AI-Driven Future: Strategic Planning and Continuous Learning

8. Conclusion and Q&A

1. Recap of Key Learnings
2. Open Discussion: AI Opportunities and Concerns in Participants' Industries
3. Q&A Session

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