Faysal Aziz

Mastering AI Prompting for Enhanced Productivity

Unlock the Power of AI: From Foundations to Advanced Prompt Engineering - 1 day

FA-0300 · 1 day

Agentic & Generative AI

Introduction

Ready to level up your AI game? Welcome to your guide to becoming an AI whisperer! Curious about DeepSeek? Let's cut through the AI hype and explore this rising star in the world of large language models!

While everyone's talking about ChatGPT and Gemini, DeepSeek has been quietly pushing boundaries and catching the attention of AI enthusiasts. In this course, we'll peel back the curtains on what makes DeepSeek special, and show you how it fits into the bigger AI picture – no buzzwords or marketing fluff, just real talk about what these tools can (and can't) do.

We'll dive into the practical stuff: understanding AI fundamentals, mastering prompt engineering across different models, and discovering where DeepSeek truly shines compared to its more famous cousins. Whether you're an AI skeptic or enthusiast, you'll walk away with the skills to cut through the tech jargon and make these tools work for you in meaningful ways. Think of it as your BS-free guide to navigating the AI landscape, with a special spotlight on one of its most intriguing new players.

Ever wondered how to make AI tools work their magic? You're in the right place. In this course, we'll crack the code on getting the most out of AI powerhouses like ChatGPT, Gemini, Claude, and more. Think of it as learning how to speak "AI" fluently – because let's face it, these tools are everywhere now, and knowing how to use them well is like having a superpower in your back pocket.

We'll start by demystifying AI (no computer science degree required!), explore how these large language models actually think (spoiler: it's fascinating), and then dive into the art of prompt engineering. By the end, you'll be crafting prompts that make AI tools dance to your tune, whether you're a creative professional, tech enthusiast, or just curious about making these tools work better for you.

Learning outcomes

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

- Comprehend the foundational concepts of Artificial Intelligence and its relevance in modern productivity tools.
- Understand the architecture and functioning of Large Language Models (LLMs).
- Apply prompt engineering techniques to interact effectively with various AI models.
- Evaluate and compare the capabilities of different AI models, with a special focus on DeepSeek's R1 reasoning model.
- Implement AI prompting strategies to enhance productivity in real-world scenarios.

Prerequisites

- Basic understanding of computer operations and internet usage.
- Familiarity with general AI concepts is beneficial but not mandatory.

Training outline

1. Introduction to Artificial Intelligence (AI)

- Definition and Scope of AI
- Historical Evolution of AI
- AI in Today's World: Applications and Impact on Productivity

2. Understanding Large Language Models (LLMs)

- Overview of LLMs
- Key Components and Architecture

  Brief Explanation of How LLMs Work
  - Data Collection and Training
  - Model Fine-Tuning
  - Inference and Output Generation

3. Introduction to Prompt Engineering

- Definition and Importance of Prompt Engineering
- Basic Principles of Crafting Effective Prompts

- Techniques for Refining Prompts to Achieve Desired Outputs

4. Exploring Leading AI Models

ChatGPT

- Overview of ChatGPT Models: o1, o1 Pro Mode, o3, and o4o
- Features and Capabilities
- Scheduled Tasks in ChatGPT o4o

Gemini

- Introduction to Gemini AI Model
- Unique Features and Use Cases

Claude

- Overview of Claude AI Model
- Key Functionalities and Applications

Perplexity

- Understanding Perplexity AI Model
- Strengths and Practical Applications

DeepDeek

- Unique standpoints of the AI model
- Operational guidelines
- Best use cases
- Various Modes
- Combination and Permutation
- Leveling with the Data concerns

5. Deep Dive into DeepSeek's R1 Reasoning Model

- Introduction to DeepSeek and the R1 Model

  Understanding R1's Reasoning Capabilities

- Reinforcement Learning Approach
- Chain-of-Thought Reasoning

Comparison with ChatGPT's o1 and o3 Models

- Performance in Mathematical and Coding Tasks
- Efficiency and Resource Utilization

Practical Demonstrations and Use Cases

- Solving Complex Problems with R1
- Real-World Applications and Benefits

6. Advanced Prompt Engineering Techniques

- Crafting Prompts for Complex Tasks
- Utilizing AI Models for Coding and Mathematical Problem-Solving
- Strategies for Effective Interaction with AI Models

7. Enhancing Productivity through AI Prompting

- Integrating AI Tools into Daily Workflows
- Case Studies of AI-Driven Productivity Improvements
- Best Practices for Sustained Productivity Gains

This course is led by an instructor with over 30 years of industry experience, ensuring that the content is rich with real-world insights and practical applications, moving beyond theoretical concepts to provide actionable knowledge.

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