

Prompt Engineering

About This Course

Welcome to the Effective Prompt Design course tailored for Professional ML Engineers! In today's AI-driven landscape, the ability to design prompts that effectively interact with advanced language models like ChatGPT, Claude, and BARD is crucial for ML engineers and researchers. This course empowers you to master the art of prompt engineering, enabling you to harness the full potential of these tools. You'll learn how to create precise, contextually-rich prompts to obtain accurate and relevant responses for a wide range of tasks, including text generation and text-to-image generation, as well as open-source language model interaction.

Learning Outcomes

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

- Understand the concept of prompt engineering and its critical role in obtaining desired outcomes from language models.
- Design prompts that elicit coherent and contextually appropriate responses for professional machine learning tasks.
- Craft prompts for various applications, including text generation, summarization, translation, and text-to-image generation.
- Tailor prompts specifically for professional ML applications, even if you lack deep technical expertise.
- Effectively utilize tools and platforms like ChatGPT, Claude, and BARD to interact with language models in your ML projects.

Prerequisites

- Proficiency in machine learning concepts and techniques.
- Familiarity with text-based applications and tools.
- Curiosity and willingness to enhance your AI skills and prompt engineering expertise.

Course Syllabus

Day	Content	Project
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Day 1	<ul style="list-style-type: none"> → Understanding the role of prompt engineering in interacting with language models. → Exploring the significance of clear and effective prompts. → Overview of AI-powered platforms like ChatGPT, Claude, and BARD. 	
Day 2	<ul style="list-style-type: none"> → Exploring the capabilities and limitations of language models. → Hands-on exploration of generating text using basic prompts. → Ethical Considerations in Prompt Design 	<ul style="list-style-type: none"> ● Design a Good Prompt to automate some of daily task ● Prompt Design for Professional tasks
Day 3	<ul style="list-style-type: none"> → Crafting prompts tailored for professional ML tasks such as data preprocessing, model evaluation, and hyperparameter tuning. 	<ul style="list-style-type: none"> ● Prompts for ML Related task
Day 4	<ul style="list-style-type: none"> → Crafting prompts with open-source/openai api text-to-image generation models 	<ul style="list-style-type: none"> ● Prompt Generation for Text-to-Image models from LLM