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Introduction to Prompt Engineering

1-day course

FA-0259 · 1-day

Agentic & Generative AI

Introduction

Welcome to "Prompt Engineering for Language Learning Models (LLMs)." The emergence of sophisticated language models like ChatGPT, Google's Bard, and others has revolutionized human-machine interactions. The essence of obtaining desired outputs lies in the art and science of prompt engineering. In this single-day course, participants will delve into the intricacies of crafting effective prompts tailored for advanced LLMs, guided by trainers who have firsthand experience with these cutting-edge technologies.

Learning outcomes

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

1. Understand the architecture and capabilities of leading LLMs.

2. Craft tailored prompts that extract desired responses from LLMs.

3. Evaluate and iterate prompts based on model outputs.

4. Recognize best practices and common pitfalls in prompt engineering for LLMs.

Prerequisites

1. Basic knowledge of AI and machine learning concepts.

2. Familiarity with the concept of natural language processing (NLP).

3. An interest in optimizing human-machine textual interactions.

Training outline

1. Overview of Language Learning Models (LLMs)

1. Introduction to LLMs: Exploring architectures like GPT, BERT, and T5.
2. Capabilities and Limitations: What modern LLMs can and cannot do.
3. Intended Outcome: Participants will have a foundational understanding of prominent LLM architectures and their capabilities.

2. The Art of Prompt Engineering

1. Defining Prompt Engineering: The importance of prompts in guiding model outputs.
2. Prompt Structures: Exploring different ways to frame prompts for desired outputs.
3. Intended Outcome: Participants will grasp the significance of prompt engineering in shaping LLM responses.

3. 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. Intended Outcome: Participants will design tailored prompts that extract desired information or responses from LLMs.

4. Evaluation and Iteration

1. Analyzing Model Outputs: Determining the success of a prompt.
2. Feedback Loops: Iteratively refining prompts for better outcomes.
3. Intended Outcome: Participants will assess the effectiveness of their prompts and refine them based on LLM responses.

5. Best Practices and Common Pitfalls

1. Avoiding Ambiguity: Crafting prompts that reduce model uncertainty.
2. Managing Model Biases: Being aware of and navigating potential model biases in outputs.
3. Intended Outcome: Participants will be equipped with strategies to avoid common mistakes and adhere to best practices in prompt engineering.

6. Advanced Prompt Engineering Techniques

1. Templated Prompts: Creating reusable prompt structures.
2. Conditional Prompts: Guiding LLMs to generate outputs based on certain conditions or logic.
3. Intended Outcome: Participants will explore advanced techniques to further optimize and customize their interactions with LLMs.

Throughout the course, hands-on exercises with real LLM platforms will ensure participants not only understand the theoretical aspects but also gain practical experience in prompt engineering. By the end, they will be adept at harnessing the full potential of LLMs through skillful prompting.

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