

## Prompt Engineering— Concept Document

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**Day:** 5

**Topic:** Prompt Engineering

### Concept Overview :

1. **Definition:**

Prompt Engineering is the process of designing effective inputs (prompts) to get desired outputs from an LLM.

2. **Goal:**

To guide models like GPT or BERT to perform tasks accurately using well-structured queries.

3. **Techniques:**

- **Zero-shot:** Asking the model directly without examples.
- **Few-shot:** Providing a few examples for better context.
- **Chain-of-Thought (CoT):** Asking the model to explain reasoning step-by-step.

4. **Importance:**

Prompts determine how well an LLM performs without needing to retrain it.

5. **Applications:**

Chatbots, summarization, reasoning tasks, code generation, and creative writing.

6. **Conclusion:**

Prompt Engineering bridges human intent and model output, making LLMs practical and adaptable.

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### Reflection (5–6 Lines)

I learned that the same question can yield very different results based on prompt design. Experimenting with zero-shot and few-shot prompts showed how examples improve accuracy. The Chain-of-Thought method helped me get more logical and step-by-step answers. The main challenge was formulating clear and concise prompts for complex questions. Prompt engineering taught me that communicating effectively with AI is a skill in itself.