

## Prompt Engineering for Everyone

**Course Duration:** 08 hours (1 day)

**Course Audience:** Business

**Important Note:**

- Unofficial courseware along with lab files and exercises will be provided

**Course Outcomes:**

1. Understand core prompting principles.
2. Develop effective prompting strategies.
3. Optimize prompts for various applications.
4. Evaluate and refine prompt performance.
5. Apply ethical and safe prompting practices.

### **Chapter 01: Introduction to Prompting**

- 1.1 Understanding Prompts and its need
- 1.2 Fine Tuning vs Prompting
- 1.3 Overview of various Generative AI Models (GPT, Claude, DeepSeek, etc.)
- 1.4 Understanding the Capabilities of Generative AI

### **Chapter 02: Core Principles of Effective Prompting**

- 2.1 Understanding Text Prompting
- 2.2 Importance of Prompt Structure
- 2.3 Key Components of an Effective Prompt
- 2.4 Types of Prompts (Zero Shot, Multi short, Zero-shot CoT)
- 2.5 Practical Applications of Text Prompting Techniques

### **Chapter 03: Advance Prompting Techniques**

- 3.1 Prompt iteration strategies
- 3.2 Summarization & Compression Strategies in Prompting
- 3.3 File prompting strategies (Exploring Multimodel capability)
- 3.4 Self Consistency and Knowledge Prompting
- 3.5 Case Studies and Examples

## **Chapter 04: Tour of OpenAI/Gemini Studio**

- 4.1 Experimenting with Model Parameters for Optimal Prompting
- 4.2 Understand Context window and count tokens (for Text and Images)
- 4.3 System instructions and tools
- 4.4 Understanding quick app development using Google AI Studio

## **Chapter 05: Image Prompting**

- 5.1 Basics of Image Prompting
- 5.2 Creating Images with DALL·E 2
- 5.3 Advanced Techniques for Enhancing Image Generation
- 5.4 Use Cases and Examples in Image-based Applications
- 5.5 Practical Applications of Image Prompting

## **Chapter 06: Prompt Reliability**

- 6.1 Understanding AI Safety Risks
- 6.2 Techniques for Promoting Debiasing in AI Responses
- 6.3 Mitigating Risks in AI Responses
- 6.4 Addressing Transparency in AI
- 6.5 Practical Applications of Ethical Prompting