Training Day 1 Report

Date: 30 June 2025

Venue: GNDEC Ludhiana - CSE Department

Topic: Introduction to Prompt Engineering

By: Sahil Stathia Sharma URN 2302658 CRN 2315255

Overview

On Day 1 of our training on Prompt Engineering, we were introduced to the concept, structure, types, and real-world applications of prompts. The session emphasized how effective prompt writing is essential to interact with AI models like ChatGPT, Gemini, or Claude for optimal results.

We explored:

- What prompt engineering means and how it works,
- Real-world use cases across industries like education, software development, and business,
- The key components that make a great prompt,
- Various types of prompts such as instructional, creative, and analytical,
- The difference between good and bad prompts with examples.

The session laid a strong foundation for understanding how prompt structure directly affects AI responses, highlighting that clear, specific, and role-based prompts lead to better performance and accuracy.

1. What is Prompt Engineering?

Prompt engineering is the skill of crafting effective instructions (prompts) to guide an AI model (like ChatGPT, Gemini, Claude) to generate accurate, useful, and context-aware responses.

It acts as a bridge between human intent and machine understanding.

2. Real-World Use Cases of Prompt Engineering

- Education: Generating guizzes, lesson plans, summaries.
- Software Development: Code generation, debugging.
- Content Creation: Blogs, ads, social media content.
- Customer Support: Chatbot responses.
- Business: Drafting emails, reports, proposals.
- Research: Literature reviews, summarizing papers.
- Legal: Case law summaries, templates.
- Healthcare: Report drafts, simplification of medical texts.

Training Day 1 Report

3. Anatomy of a Great Prompt

- Role: Assign a perspective (e.g., 'Act as a data analyst').
- Task: Clearly define what you want.
- Context: Provide background info.
- Constraints: Word count, tone, etc.
- Examples: Help model understand output style.

4. Types of Prompt Writing

- Informational: Ask for facts or definitions.
- Instructional: Direct the AI to perform a task.
- Creative: Generate stories, poems.
- Role-Based: Act as a teacher, lawyer, etc.
- Comparative: Compare two concepts.
- Summarization: Condense large content.
- Multi-Step: Ask step-by-step questions.
- Analytical: Evaluate or give pros/cons.

5. Good vs. Bad Prompt Examples

Bad: 'Write about climate change.'

Good: 'Act as an environmental expert. Explain the main causes of climate change in 100 words.'

Bad: 'Tell me about Al.'

Good: 'You are an Al researcher. Briefly explain what generative Al is and list 2 real-world uses.'

Key Takeaways

- Prompt engineering improves AI accuracy.
- Knowing prompt types boosts productivity.
- Great prompts are clear, specific, and structured.
- Practicing structured prompts enhances communication with AI.