

# Experiment 13 Report of Expert Session on "Prompt Engineering"

## Expert Session on Prompt Engineering

Date and Time:

27th September 2025, 10:15 am - 12:15 pm

Venue:

Vivekanand Auditorium, MIT WPU Campus

Resource Person (Expert):

Mr. Surendra Panpoliya

AI and Machine Learning Expert, Industry Professional and Technical consultant

Attendees:

Students of Third Year from CSE and CSE AIDS

Organized by:

Department of Polytechnic, MIT World Peace University

### Objective of the Session:

The primary objective of the expert session was to acquaint students with the rapidly growing domain of Prompt Engineering, which has become one of the most crucial facets in the field of Artificial Intelligence. The session aimed to provide an in-depth understanding of how the phrasing and structure of prompts directly influence the performance of advanced AI systems like ChatGPT, Google Gemini, Claude

and other Large Language Models (LLMs).

Through this expert talk, students were expected to gain both conceptual and practical exposure to designing effective prompts that could lead to more accurate, context-aware, and meaningful AI-generated results. The broader goal was to bridge the gap between theoretical AI knowledge and its real-world implementation through the art of prompt formulation.

### Key Points Discussed:

- Introduction to the concept of Prompt Engineering and its necessity in the modern AI ecosystem.
- Explanation of Large Language Models (LLMs) and how they interpret prompts to generate human-like responses.
- Discussion on the structure and components of an effective prompt - clarity, context, constraints, and creativity.
- Live demonstration on the difference between vague and structured prompts and how that affects the AI output.
- Overview of Zero-Shot, Few-Shot, and Chain-of-Thought prompting techniques used in advanced AI systems.
- Introduction to rob prompting and context embedding to guide AI models towards domain specific accuracy.
- Real-world application of prompt engineering in fields like education, content creation, business automation, and software development.
- Ethical considerations of using AI responsibly, including avoiding bias, misinformation and misuse of generated content.

- Insights on career paths emerging in AI prompt design, conversational AI and generative content engineering.
- Explanation of A.C.T.O.R.S approach in prompt engineering.

### Summary of the Session:

The session began with a warm welcome and introduction of the guest speaker, Mr. Surendra Panpaliya. Mr. Panpaliya opened the session by emphasizing that while AI models are becoming increasingly powerful, their effectiveness still largely depends on the human skill of crafting intelligent prompts.

He explained how prompt engineering acts as the "communication layer" between humans and AI, shaping how machines understand context and intent. The expert illustrated the importance of precision and creativity in prompt formulation through a series of engaging demonstrations. He showed how slightly altering the phrasing of a question could yield entirely different results, helping students understand how AI models interpret text.

A major highlight of the session was the hands-on demonstration, where students experimented with different prompts guided step-by-step, analysing why some prompts fail to produce the desired results and how to refine them systematically. He also introduced techniques such as prompt chaining, where output of one prompt becomes input for the next, thereby ensuring contextual continuity.

The session was highly interactive with students actively participating and asking insightful questions related to generative AI, model fine-tuning, and real-world application of prompt design. The

Expert also discussed the growing demand for Prompt Engineering in various industries like content generation, marketing, education, and software development. The event concluded with a discussion on the ethical aspects of AI use, emphasizing the importance of using such tools responsibly.

### Learning Outcomes:

1. Clearly understand the concept of Prompt Engineering.
2. Learn how prompt phrasing, tone, and structure influence the quality and reliability of AI responses.
3. Gain hands-on experience in zero-shot, few-shot, and Chain-of-Thought prompting techniques.
4. Develop practical skills in writing effective prompts for academic, creative and technical tasks.
5. Recognize the ethical responsibilities associated with using AI generated outputs.
6. Understand the future career opportunities and the evolving scope of prompt engineering in the AI industry.
7. Build confidence in experimenting with AI tools for research, innovation, and problem-solving purposes.

### Conclusion:

Overall, the expert session on Prompt Engineering proved to be an excellent and extremely valuable and insightful learning experience. It successfully enhanced students' awareness about the transformative potential of AI in various fields.

Role of prompt design in AI. The session encouraged participants to think critically, communicate creatively with AI systems, and adopt responsible practices while leveraging modern technologies. The knowledge gained will undoubtedly assist students in their upcoming academic projects, internships, and future AI-driven careers.

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