



Exploring Generative AI and Prompt Engineering

- 4 Hours
- Lecture, Labs, and a project scoping

Course Overview

Exploring Generative AI and Prompt Engineering is an introductory, hands-on workshop designed to equip participants with the skills and knowledge to effectively use AI Large Language Models (LLMs) for real-world applications. Participants will explore key aspects of generative AI. Through interactive lectures, guided labs, and individual projects, students will learn effective and timesaving prompt engineering techniques. These skills will enable them to craft effective prompts, solve complex challenges, and integrate AI seamlessly into existing workflows. By the end of the workshop, attendees will have developed a personal toolkit of strategies and reusable templates, enabling them to drive efficiency and innovation in their roles.

Review this course online at <https://www.alta3.com/courses/ai-prompt-wrkshp>

Who Should Attend

- Professionals looking to leverage AI
- Project Managers
- Software Developers
- Business Leaders

What You'll Learn




- Understanding the current landscape of generative AI and its business impact.
- Master the principles of prompt engineering, from basic to advanced techniques.
- Develop and refine custom AI solutions tailored to specific use cases.
- Create prompt libraries and optimize AI-driven workflows for scalability.

Outline

1. Introduction and Objectives (30 minutes)

-  Lecture: Setup and Setting Expectations
-  Lecture: Generative AI Essentials
-  Lecture: Workshop Goals and Outcomes

2. Use Case 1: Basic Prompt Engineering (45 minutes)

-  Lecture: Prompt Engineering Fundamentals
-  Lecture + Lab: Basic Prompting
-  Lecture: Prompt Feedback Session

3. Use Case 2: Intermediate Prompt Engineering (45 minutes)

-  Lecture: Intermediate Prompt Techniques
-  Lecture + Lab: Prompt Refinement

- 🗣️ Lecture: Prompt Analysis & Optimization
4. Use Case 3: Advanced Prompt Engineering (45 minutes)
- 🗣️ Lecture: Complex Prompt Strategies
 - 🖥️ Lecture + Lab: Complex Prompt Workflow
 - 🗣️ Lecture: Prompt Performance Evaluation
5. Individual Use Case Development (60 minutes)
- 🗣️ Lecture: Project Planning
 - 🖥️ Lecture + Lab: Custom Prompt Development
 - 🗣️ Lecture: Peer Review & Feedback
6. Wrap-Up and Next Steps (15 minutes)
- 🗣️ Lecture: Workshop Key Takeaways
 - 🗣️ Lecture: Resources and Support
 - 🗣️ Lecture: Final Q&A & Closing

Prerequisites

- Technical Familiarity

Next Courses

- Zero Code AI Solutions (<https://alta3.com/courses/ai-zero-code>)
- Application Development with AI (<https://alta3.com/courses/ai-app-dev>)
- Prompt Engineering and Natural Language Processing (<https://alta3.com/courses/natural-lang-apis>)
- Train your AI: Fine Tuning and Data Preparation for your Pre-Trained Models (<https://alta3.com/courses/ai-tune>)
- AI Powered Computer Vision (<https://alta3.com/courses/ai-vision>)
- Open Source Generative AI (<https://alta3.com/courses/ai-gpu>)