

# Crafting Advanced AI Prompts: Prompt Engineering II Course

Take your prompting skills to the next level with advanced techniques for building role-based, layered, and highly optimized AI prompts. Designed for users who have completed Prompt Engineering I, this half-day course combines expert instruction and hands-on practice to refine prompt effectiveness.

Group classes in Live Online and onsite training is available for this course. For more information, email [onsite@graduateschool.edu](mailto:onsite@graduateschool.edu) or visit: <https://www.graduateschool.edu/courses/crafting-advanced-ai-prompts-prompt-engineering-ii>



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## Course Outline

### Module 1: Review of Intermediate Techniques

- Quick refresher on role-based, iterative, and few-shot prompting.
- Decide when to use each technique for best effect.
- Hands-on: fine-tune prompts for specific outcomes.

### Module 2: Advanced Prompting Strategies

- Apply Chain-of-Thought, Tree-of-Thought, and self-consistency.
- Use meta-prompting and debate/critique prompting to improve outputs.
- Introduce constraint-based and retrieval-augmented prompting.

### Module 3: Advanced Demos & Practice

- Critique and improve explanations for different audiences.
- Constrain style, format, and word count for production needs.
- Hands-on: build prompts for complex, multi-step tasks.

### Module 4: Interactive Exercises and Case Studies

- Tackle end-to-end scenarios (e.g., plans, policies, analyses).
- Compare outputs and discuss optimization strategies.
- Document prompt templates and evaluation rubrics.

### Module 5: Wrap-Up and Next Steps

- Recap advanced techniques and selection criteria.
- Share resources for continued learning and practice.
- Open Q&A and guidance for real-world rollout.