COURSE SYLLABUS

Advanced Prompt Design & Reasoning Strategies for Professionals (Self-Paced)

This advanced course is built for professionals who already have the fundamentals of AI prompt engineering down and are ready to move past basic prompting into more precise prompt design and reasoning control.

Group classes (Live Online) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/advanced-prompt-design-reasoning-strategies-for-professionals-self-paced



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Course Outline

Module 1: Prompt Architecture & Multi-Prompt Systems

- Explain the difference between single-prompt tasks and multi-prompt reasoning systems.
- Decompose complex work into discrete prompt roles.
- Design a coordinated set of prompts that each serve a specific reasoning function.

Module 2: Reasoning Control Through Self-Critique & Adversarial Prompting

- Use self-critique prompts to identify weaknesses in AI outputs.
- Apply adversarial prompting to surface gaps, risks, and assumptions.
- Improve output quality without adding new source material.

Module 3: Constraint-First Prompting & Uncertainty Control

- Design prompts that explicitly control scope, exclusions, and failure conditions.
- Instruct AI to surface uncertainty instead of guessing.
- Reduce hallucinations by shaping acceptable behavior in advance.

Module 4: Comparative Prompting & Prompt Optimization

- Use comparative prompting to identify weaknesses and inconsistencies.
- Evaluate outputs by analyzing disagreement across prompts.
- Optimize prompts for efficiency without degrading output quality.