

Expanded Interactive Workshop Exercises for Advanced Prompting

1. Crafting Creative and Professional Prompts

Objective: Learn how to adjust prompts to generate outputs tailored for diverse audiences or purposes.

Exercise:

- **Scenario:** You're tasked with summarizing the Industrial Revolution for two different audiences.
 - Audience 1: High school students (creative prompt).
 - Audience 2: Policy analysts (professional prompt).

Steps:

1. Write a creative prompt for students, such as: *"Act as a storyteller and explain how the Industrial Revolution changed the world in a fun and engaging way, using examples kids can relate to."*
2. Write a professional prompt for analysts: *"Provide a concise, data-driven summary of the Industrial Revolution's socioeconomic impacts, focusing on policy implications."*
3. Compare AI outputs and refine your prompts for better results.

Outcome: Participants will understand how prompt structure and tone influence AI responses.

2. Debugging a Vague AI Response

Objective: Learn to improve AI outputs by refining and clarifying ambiguous prompts.

Exercise:

- **Scenario:** The AI provides a generic response to the prompt: *"Tell me about climate change."*
- **Activity:**
 1. Analyze the vague response for gaps in detail.
 2. Redesign the prompt to include specific constraints, such as:
 - *"Describe the impact of climate change on polar ecosystems, using recent data from 2000-2023, in 200 words."*
 3. Compare the revised output to the original.

Outcome: Participants learn how specificity and constraints guide AI toward more accurate and useful responses.

3. Experimenting with Stylistic Prompts

Objective: Explore how stylistic and tone variations can shape AI-generated content.

Exercise:

- **Scenario:** Summarize Newton's laws of motion for different contexts.
 - Audience 1: Children.
 - Audience 2: Graduate physics students.

Steps:

1. For children: Prompt: *"Explain Newton's laws of motion as a bedtime story with simple language and fun examples."*
2. For physics students: Prompt: *"Provide a detailed explanation of Newton's three laws of motion, including mathematical equations and real-world applications."*
3. Evaluate how tone, complexity, and depth vary between the outputs.

Outcome: Participants learn to tailor content to diverse audiences while maintaining clarity and relevance.

4. Multi-Step Prompt Refinement

Objective: Practice breaking complex tasks into manageable steps for better results.

Exercise:

- **Scenario:** Create a guide for small business marketing.
- **Activity:**
 1. Step 1: Prompt: *"List five key marketing strategies for small businesses."*
 2. Step 2: Prompt: *"Expand on #3, providing a detailed example for a retail business."*
 3. Step 3: Prompt: *"Draft a social media post using this strategy for a retail clothing brand."*
 4. Review the progression of responses and evaluate how each step builds upon the previous one.

Outcome: Participants gain insight into sequential prompting and refining outputs iteratively.

5. Using Formatting Techniques for Clarity

Objective: Learn to request structured outputs for improved readability.

Exercise:

- **Scenario:** Compare Tesla and Edison's contributions to technology.
- **Activity:**
 1. Prompt: *"Create a comparison table for Tesla and Edison, including columns for 'Invention,' 'Key Contributions,' and 'Impact.'"*
 2. Refine the prompt to include additional details like dates or challenges faced.
 3. Analyze how table formatting improves clarity over paragraph responses.

Outcome: Participants learn to enhance usability of AI outputs with formatting instructions.

6. Ethical Prompting in Practice

Objective: Explore how ethical considerations influence AI prompting and usage.

Exercise:

- **Scenario:** Use AI to draft an email about a sensitive topic, such as layoffs.
- **Activity:**
 1. Initial prompt: *"Draft an email announcing layoffs to staff."*
 2. Refine the prompt to incorporate empathy and transparency: *"Write an empathetic email announcing layoffs, focusing on support resources, clear reasons, and future steps."*
 3. Discuss the ethical implications of tone, transparency, and impact on recipients.

Outcome: Participants reflect on ethical usage and learn to design prompts for responsible communication.

7. Iterative Refinement with Feedback Loops

Objective: Practice using AI as a collaborative tool for content improvement.

Exercise:

- **Scenario:** Write a blog post on AI in education.
- **Activity:**
 1. Initial prompt: *"Write a 300-word blog post on AI's role in education."*
 2. Follow-up: *"Rewrite this to include more examples and a conversational tone."*
 3. Final iteration: *"Simplify this blog for a middle-school audience."*
 4. Review how the iterations enhance engagement and accessibility.

Outcome: Participants learn to collaborate with AI for continuous content refinement.

8. Advanced Customization with Extended GPTs

Objective: Explore the capabilities of domain-specific GPTs for specialized tasks.

Exercise:

- **Scenario:** Use an Extended GPT for project management.
- **Activity:**
 1. Select a task: *"Plan a project timeline for launching a new app."*
 2. Use the extended GPT to generate an initial timeline.
 3. Refine outputs by adding constraints, such as: *"Include milestones for market research and beta testing."*

Outcome: Participants see the value of tailored GPTs in streamlining complex workflows.

Wrap-Up Activity

- **Group Discussion:** Reflect on which techniques were most effective and why.
- **Take-Home Challenge:** Develop a multi-step prompt to solve a real-world problem relevant to your work or interests.

These expanded exercises are designed to make your workshop interactive, engaging, and impactful, helping participants master advanced prompting techniques in practical scenarios.