

3. Student Activity

Student Activity: Practicing Effective Prompt Crafting

Welcome to the student activity session on **Crafting Effective Prompts**! In this activity, you will practice creating prompts that are clear, specific, and provide context. You will also refine prompts through iteration, set context, frame questions effectively, and learn to mitigate biases. Let's dive into the exercises for each concept.

1. Practicing Clarity

Objective: Create clear prompts that are easy for the AI to understand.

Exercise:

- **Example 1:**
 - Vague Prompt: "Tell me about technology."
 - Clear Prompt: "Explain the impact of smartphones on daily communication."
- **Example 2:**
 - Vague Prompt: "Describe a festival."
 - Clear Prompt: "Describe the traditions and customs of the Chinese New Year."
- **Example 3:**
 - Vague Prompt: "Talk about a famous person."
 - Clear Prompt: "Discuss the contributions of Marie Curie to science."

Activity: Rewrite the following vague prompt to make it clear: "Tell me about a book."

2. Practicing Specificity

Objective: Narrow down your request to get a focused response.

Exercise:

- **Example 1:**
 - Non-Specific Prompt: "What are the benefits of exercise?"
 - Specific Prompt: "What are the cardiovascular benefits of running?"

- **Example 2:**
 - Non-Specific Prompt: "Tell me about animals."
 - Specific Prompt: "Tell me about the habitat and diet of polar bears."
- **Example 3:**
 - Non-Specific Prompt: "Explain climate change."
 - Specific Prompt: "Explain the effects of climate change on polar ice caps."

Activity: Rewrite the following non-specific prompt to make it specific: "What are the advantages of learning a language?"

3. Providing Context

Objective: Provide enough background information for the AI to give a relevant answer.

Exercise:

- **Example 1:**
 - Prompt Without Context: "Discuss renewable energy."
 - Prompt With Context: "Discuss the role of solar energy in reducing carbon emissions in urban areas."
- **Example 2:**
 - Prompt Without Context: "Explain teamwork."
 - Prompt With Context: "Explain the importance of teamwork in a healthcare setting."
- **Example 3:**
 - Prompt Without Context: "Describe leadership."
 - Prompt With Context: "Describe leadership qualities essential for managing a remote team."

Activity: Add context to the following prompt: "Discuss the importance of education."

4. Refining Prompts Through Iteration

Objective: Improve your prompt step by step to get a more focused response.

Exercise:

- **Example 1:**

- Initial Prompt: "Tell me about art."
- Refined Prompt: "Tell me about the influence of Impressionism on modern art."
- **Example 2:**
 - Initial Prompt: "Explain technology."
 - Refined Prompt: "Explain the impact of artificial intelligence on the job market."
- **Example 3:**
 - Initial Prompt: "Describe a city."
 - Refined Prompt: "Describe the cultural landmarks of Paris."

Activity: Refine the following initial prompt: "Talk about sports."

5. Framing Questions Effectively

Objective: Frame open-ended questions to encourage detailed responses.

Exercise:

- **Example 1:**
 - Closed-Ended Question: "Is climate change real?"
 - Open-Ended Question: "How does climate change affect global weather patterns?"
- **Example 2:**
 - Closed-Ended Question: "Is reading beneficial?"
 - Open-Ended Question: "What are the cognitive benefits of regular reading?"
- **Example 3:**
 - Closed-Ended Question: "Is technology good?"
 - Open-Ended Question: "How has technology improved healthcare delivery?"

Activity: Convert the following closed-ended question into an open-ended question: "Is exercise important?"

6. Mitigating Bias in Prompts

Objective: Design prompts to be neutral and inclusive.

Exercise:

- **Example 1:**

- Biased Prompt: "What are the best careers for women?"
- Neutral Prompt: "What are the best career opportunities in the tech industry?"
- **Example 2:**
 - Biased Prompt: "What are leadership qualities for men?"
 - Neutral Prompt: "What are essential leadership qualities in a corporate setting?"
- **Example 3:**
 - Biased Prompt: "What are traditional roles for women?"
 - Neutral Prompt: "What are evolving roles in modern society?"

Activity: Rewrite the following biased prompt to make it neutral: "What are hobbies suitable for men?"

7. Creating Complex Prompts

Objective: Use multi-step queries and conditional instructions for advanced interactions.

Exercise:

- **Example 1:**
 - Multi-Step Query: "First, explain the history of the internet. Then, discuss its impact on education."
- **Example 2:**
 - Conditional Instruction: "If renewable energy is cost-effective, explain how it can be implemented in rural areas."
- **Example 3:**
 - Multi-Step Query: "Describe the process of photosynthesis. Then, explain its importance to the ecosystem."

Activity: Create a multi-step query for the following topic: "The benefits of meditation."

By practicing these exercises, you'll enhance your ability to craft effective prompts and communicate more effectively with AI systems. Feel free to share your responses and discuss them with your peers!