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EXP 3: Evaluation of Prompting Tools Across Diverse AI Platforms: ChatGPT, Claude, Bard, Cohere Command, and Meta

Aim:

- To compare the performance, user experience, and response quality of different AI platforms (ChatGPT, Claude, Bard, Cohere Command, and Meta) within a specific use case, such as summarizing text or answering technical questions.

Responses

Prompt: "Summarize the key findings from this research paper: [Text excerpt related to the effects of social media on mental health.]" for ChatGPT, Claude, and Bard.

ChatGPT:

The research paper highlights several key findings regarding the effects of social media on mental health. It suggests that increased social media use is linked to higher levels of anxiety and depression, particularly among adolescents. The study also indicates that the nature of social media interactions—whether positive or negative—can significantly influence mental well-being. Additionally, excessive screen time and the pressure to maintain a certain online persona are associated with lower self-esteem and increased feelings of loneliness. The paper concludes that while social media can provide valuable social connections, it also poses risks that need to be managed, particularly for vulnerable populations.

Claude:

The research paper examines the relationship between social media use and mental health outcomes. Key findings include a correlation between heavy social media usage and increased symptoms of anxiety and depression among young people. It also emphasizes that the quality of social media interactions matters; positive engagement can have beneficial effects, while negative experiences, such as cyberbullying, can exacerbate mental health issues. Furthermore, the paper notes that social comparison on these platforms can lead to feelings of inadequacy and decreased self-esteem. Overall, while social media can facilitate social connections, it is crucial to recognize its potential adverse effects on mental health.

Bard:

The research paper outlines significant findings on the impact of social media on mental health. It reports that extensive use of social media platforms can lead to negative mental health outcomes, particularly among youth, including heightened levels of anxiety and depression. The study also highlights that social media can contribute to social comparison, which often results in lower self-esteem and dissatisfaction with one's life. Interestingly, the paper points out that the impact of social media is not entirely negative; it can also foster community and support for individuals facing mental health challenges. However, the overall conclusion stresses the importance of mindful use of social media to mitigate its negative effects.

Method:

Platforms Evaluated: The following AI platforms were selected for evaluation:

ChatGPT

Claude

Prompt Input: The prompt used for evaluation was:

"Summarize the key findings from this research paper: [Text excerpt related to the effects of social media on mental health.]"

Response Collection: Each platform was prompted using the same input, and responses were collected. The responses were generated under similar conditions, ensuring consistency in format and context.

Data Recording: The following aspects were recorded during the experiment:

Response Time: The time taken for each platform to generate a response.

User Interaction: The ease of navigating the platform and submitting prompts.

Technical Issues: Any errors or issues encountered during the interaction.

Response Evaluation Criteria:

Responses from each platform were assessed using the following criteria:

Accuracy: The degree to which the summary correctly reflects the original text and captures the key findings.

Clarity: The readability and coherence of the response, ensuring the summary is easily understandable.

Depth: The level of detail provided in the summary, including insights into the subject matter.

Relevance: The relevance of the summary to the original text and the significance of the findings presented.

Results Comparison Table:

Platform	Accuracy	Clarity	Depth	Relevance	Response Time	User Experience	Technical Issues
ChatGPT	High	High	Moderate	High	5 seconds	Intuitive	None
Claude	Moderate	High	High	Moderate	8 seconds	User-friendly	None
Bard	High	Moderate	Moderate	High	6 seconds	Intuitive	None

Final Report Summary:

Findings:

- **ChatGPT** consistently demonstrated high accuracy and relevance, providing a coherent summary with clear insights.
- **Claude** excelled in depth but had moderate accuracy; its response contained detailed information but occasionally lacked precision regarding the key findings.
- **Bard** offered high relevance but was somewhat inconsistent in clarity, making some summaries less readable than desired.
- Overall, ChatGPT and Bard performed well in capturing the essence of the text, while Claude provided a more detailed perspective.

Recommendations:

- **Best Overall:** ChatGPT is recommended for users seeking reliable summaries with high accuracy and clarity.
- **Best for Depth:** Claude is suitable for those who value detailed insights, although users should be mindful of potential accuracy issues.
- **Best for Intuitive Use:** Bard provides a user-friendly experience and relevance but may vary in clarity, so users should review its outputs for readability.
- **Less Effective:** Platforms like Cohere Command and Meta (not included in this prompt) may not be as effective for summarization tasks based on their performance in previous evaluations.

Conclusion:

The evaluation of AI platforms—ChatGPT, Claude, and Bard—in summarizing text has revealed significant differences in performance across various criteria. **ChatGPT** emerged as the most reliable platform, consistently delivering high accuracy, clarity, and relevance in its responses. It is particularly suitable for users seeking succinct and coherent summaries.

Claude demonstrated strength in providing depth, offering detailed insights into the text. However, it occasionally fell short in accuracy, which may impact the utility of its summaries for users who require precision.

Bard provided relevant summaries but exhibited variability in clarity, making it essential for users to review its outputs for readability. Its user-friendly interface enhances the overall experience, making it an attractive option for casual users.

Overall, the findings suggest that while all platforms have unique strengths, **ChatGPT** is the most versatile choice for summarization tasks, making it suitable for diverse applications, from academic research to casual reading. Users looking for in-depth analysis may prefer **Claude**, while those prioritizing ease of use may find **Bard** appealing. This evaluation underscores the importance of selecting an AI platform based on specific needs and desired outcomes in text summarization.