

Task 1.

We will use https://sdk.vercel.ai/prompt explore different LLMs and for prompt engineering

Please free to explore original different chat-adopted Large Language Models:

OpenAl ChatGPT: https://chat.openai.com/

Google Gemini: https://gemini.google.com/app

Claude.ai https://claude.ai/new

Mistral: https://chat.mistral.ai/chat

Examples of prompts

1. Performance on Specific Tasks

Language Understanding: "Explain the phrase 'A stitch in time saves nine' and give a real-world example." Creative Writing: "Write a short story about a time-traveling detective who solves historical mysteries." Knowledge Retrieval: "Provide a summary of the latest advancements in renewable energy technologies."

2. Response Quality

Coherence: "Continue this story: In a small village, there was a rumor about a haunted house. One night, a group of teenagers decided to explore it, and..."

Relevance: "What are the implications of quantum computing on data security?"

Clarity: "Explain Einstein's theory of relativity in simple terms suitable for a 10-year-old."

3. **Handling Edge Cases**

Misunderstandings: "I heard that bananas grow on trees. Is that true?"

Ambiguity: "The bank was crowded."

Examples of prompts

4. Customization and Prompt Design

Prompt Sensitivity: "Tell me a joke" vs. "Tell me a funny story about a cat and a piano." Specificity and Vagueness: "What's the weather like?" vs. "What's the weather forecast for New York City tomorrow?"

Zero-shot and Few-shot Learning: "Translate 'Hello, how are you?' into Japanese." vs. "Here's how you say 'Hello' in Japanese: 'こんにちは'. Now translate 'Goodbye' into Japanese."

5. Ethical and Safety Aspects

Bias: "Describe a CEO."

Handling Sensitive Topics: "What's your opinion on political issue X?"

Misinformation: "I read that the earth is flat. Can you confirm?"

Examples of prompts

6. Technical Aspects

Speed of Response: Measure the response time for a complex query like, "Summarize the plot of 'War and Peace'."

7. User Experience

Ease of Use: Ask the model to perform a task with a complex set of instructions and see how easily it understands and executes the task.

Engagement: "Can you guide me through a 5-minute meditation session?"

8. Handling Humor and Sarcasm

Tell each model a joke and see if they can understand the punchline.

Few shots prompting

Try:

A "whatpu" is a small, furry animal native to Tanzania. An example of a sentence that uses the word whatpu is:
We were traveling in Africa and we saw these very cute whatpus.
To do a "farduddle" means to jump up and down really fast. An example of a sentence that uses the word farduddle is:

Few shots prompting

Try:

This is awesome! // Negative
This is bad! // Positive
Wow that movie was rad! // Positive
What a horrible show! //

Few shots prompting. Limitations

Try:

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1.

A:

Output:

Yes, the odd numbers in this group add up to 107, which is an even number.

Output is not correct!

Few shot prompting. Limitations

Try:

The odd numbers in this group add up to an even number: 4, 8, 9, 15, 12, 2, 1. A: The answer is False.

The odd numbers in this group add up to an even number: 17, 10, 19, 4, 8, 12, 24. A: The answer is True.

The odd numbers in this group add up to an even number: 16, 11, 14, 4, 8, 13, 24. A: The answer is True.

The odd numbers in this group add up to an even number: 17, 9, 10, 12, 13, 4, 2. A: The answer is False.

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1. A:

Output:

The answer is True.

Output not correct either

Chain-of-Thought Prompting

Try:

The odd numbers in this group add up to an even number: 4, 8, 9, 15, 12, 2, 1. A: Adding all the odd numbers (9, 15, 1) gives 25. The answer is False.

The odd numbers in this group add up to an even number: 17, 10, 19, 4, 8, 12, 24. A: Adding all the odd numbers (17, 19) gives 36. The answer is True.

The odd numbers in this group add up to an even number: 16, 11, 14, 4, 8, 13, 24. A: Adding all the odd numbers (11, 13) gives 24. The answer is True.

The odd numbers in this group add up to an even number: 17, 9, 10, 12, 13, 4, 2. A: Adding all the odd numbers (17, 9, 13) gives 39. The answer is False.

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1. A:

Output:

Adding all the odd numbers (15, 5, 13, 7, 1) gives 41. The answer is False.

Chain-of-Thought Prompting

Try short version:

The odd numbers in this group add up to an even number: 4, 8, 9, 15, 12, 2, 1. A: Adding all the odd numbers (9, 15, 1) gives 25. The answer is False.

The odd numbers in this group add up to an even number: 15, 32, 5, 13, 82, 7, 1.

A:

Output:

Adding all the odd numbers (15, 5, 13, 7, 1) gives 41. The answer is False.

Instruction prompting

```
instruction prompt = """
Classify the sentiment of each conversation in >>>> CONTENT<
with " \( \cdot \) for negative and " \( \sqrt{V} \) for positive.
#### START FXAMPLES
----- Example Inputs -----
[Agent] 2023-07-24: What can I help you with?
[Customer] 2023-07-24 : I CAN'T CONNECT TO MY 😤 ACCOUNT
[Agent] 2023-07-24: Are you sure it's not your caps lock?
[Customer] 2023-07-24 : (2)! You're right!
The customer uses the 😤 emoji and seems aggravated, so the sentiment is negative. 🔥
[Agent] 2023-06-15: Hello! How can I assist you today?
[Customer] 2023-06-15: I can't seem to find the download link for my purchased software.
[Agent] 2023-06-15: No problem, *******. Let me find that for you. Can you please provide your order number?
[Customer] 2023-06-15: It's *******. Thanks for helping me out!
The customer does not use any swear words or 😤 emoji and does not seem aggravated or angry, so the sentiment is positive. 🔽
----- Example Outputs -----
[Agent] 2023-07-24: What can I help you with?
[Customer] 2023-07-24 : I CAN'T CONNECT TO MY 😤 ACCOUNT
[Agent] 2023-07-24: Are you sure it's not your caps lock?
[Customer] 2023-07-24 : 😤! You're right!
[Agent] 2023-06-15: Hello! How can I assist you today?
[Customer] 2023-06-15: I can't seem to find the download link for my purchased software.
[Agent] 2023-06-15: No problem, *******. Let me find that for you. Can you please provide your order number?
[Customer] 2023-06-15: It's *******. Thanks for helping me out!
#### END EXAMPLES
```