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Prompt Engineering For Beginners



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Introducing Today's Project!

In this project, I will demonstrate Test foundational techniques, like specifying roles and output formats. Get ChatGPT to self-critique and chain prompts. I'm doing this project to learn Prompt Engineering.

Tools and Techniques

Key techniques I learned include: Few-shot learning: Providing examples to guide the model. Prompt chaining: Breaking down complex tasks into smaller steps. Role playing: Defining roles for the model and myself. Constrained outputs.

Project reflection

This project took me approximately 30 minutes. The most challenging part was finding the most effective way to structure my prompts for the desired output. It was most rewarding to see how subtle changes in the prompt significantly.

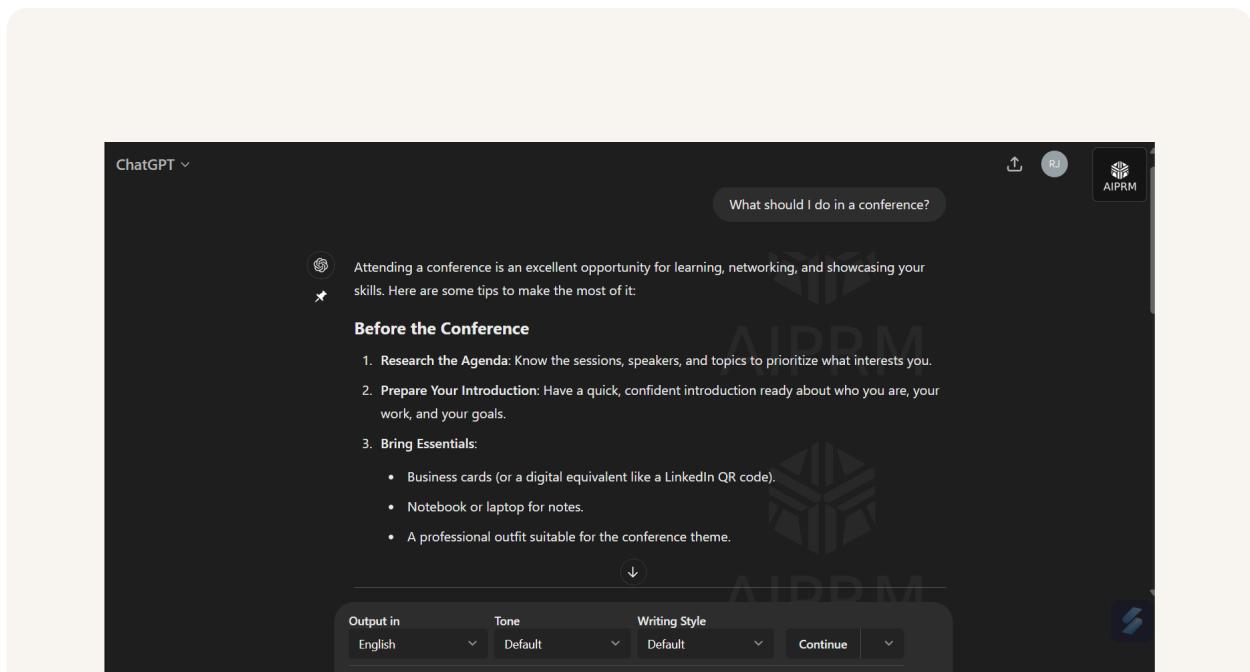
I did this project to get better as a Prompt Engineer. It partially met my goals. I got to know about various frameworks like Bridge-After-Bridge, AIDA , STAR etc and I learnt about meta prompt and prompt chaining as well.

Starting the Conversation

Prompt engineering is about writing prompts that guide the AI to give you the most useful and precise answers. AI tools use prompts behind the scene by passing your request through a specific prompt template written by a prompt engineer.

I started my project with a basic prompt, asking ChatGPT 'What should I do in a conference?'.

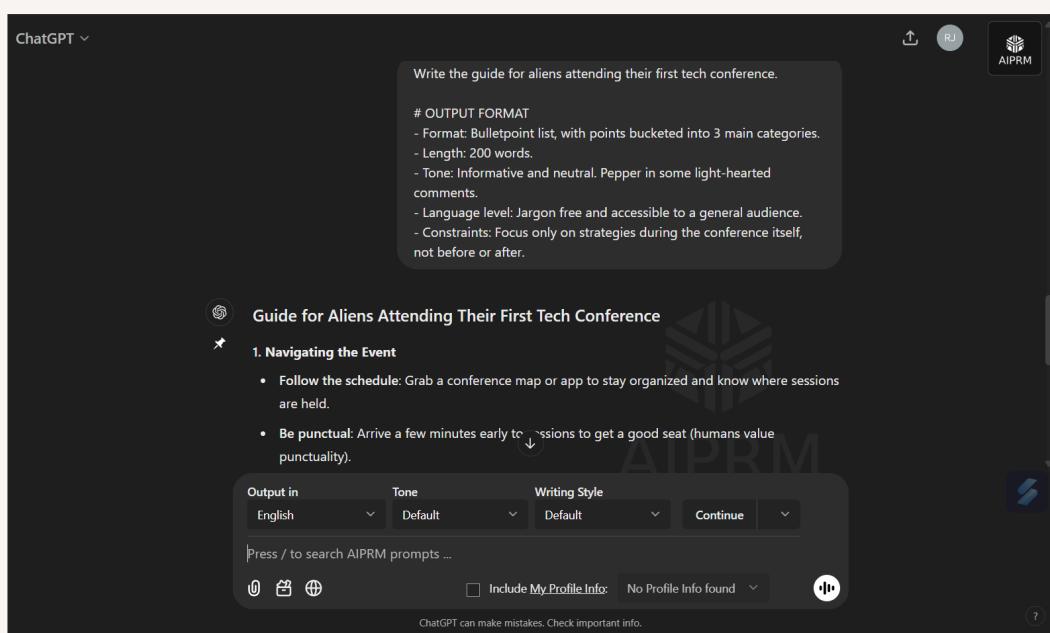
My initial impressions of the response are positive. It is helpful because it provides clear guidance on conference participation. However, it's missing specific examples, like self-introduction tips or networking questions, which would make it more



Basic Prompt Techniques

Foundational strategies to refine my basic prompt include being clear and specific, providing context or examples, and outlining the desired format or tone. These steps help the AI understand the task better and deliver more accurate responses.

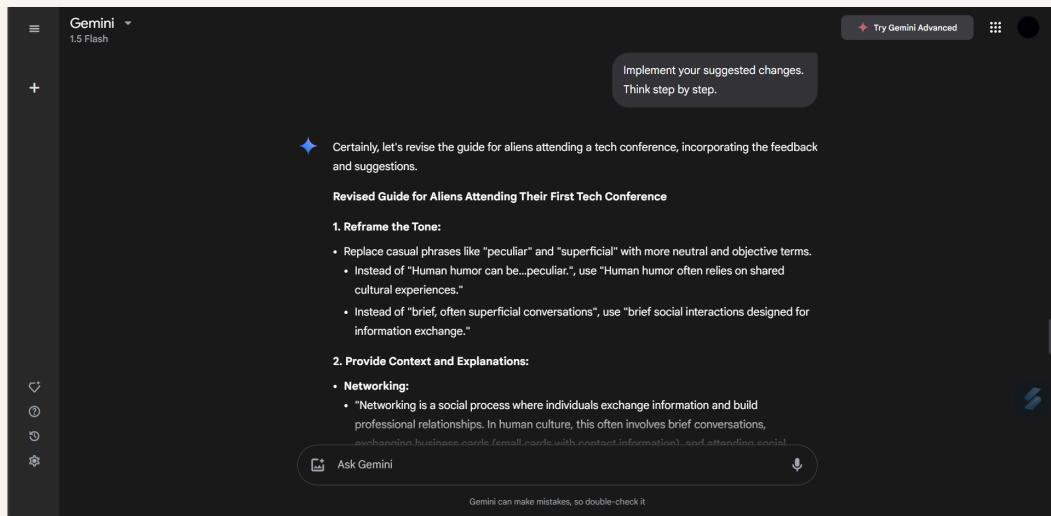
Once I used these techniques, I noticed the AI's responses became more precise and relevant. I thought the biggest difference came from giving clear, structured prompts with specific details.



Advanced Techniques

More advanced techniques include prompt chaining, which is where the output of one prompt is used as input for the next. This lets the AI model build on previous responses. This often generates a more detailed final response.

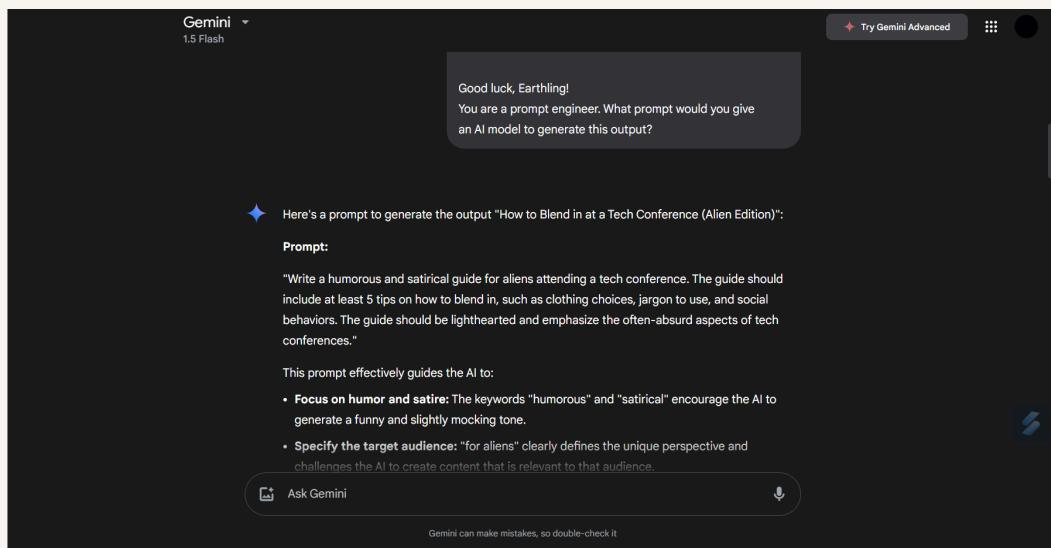
Another technique is self-critiquing, which means prompting the LLM to evaluate its own output. This helps identify and correct errors, improving the quality of the response.



Specialized Techniques

Reverse engineering is helpful when you need to understand how a product or system works without having access to its original design plans or source code. I used this technique to figure out how a vintage mechanical clock worked so I could repair it.

Creative frameworks are structured approaches (e.g., Problem-Solution-Benefit, Before-After-Bridge) that help organize content effectively. We can think of them as templates for presenting ideas clearly and logically.

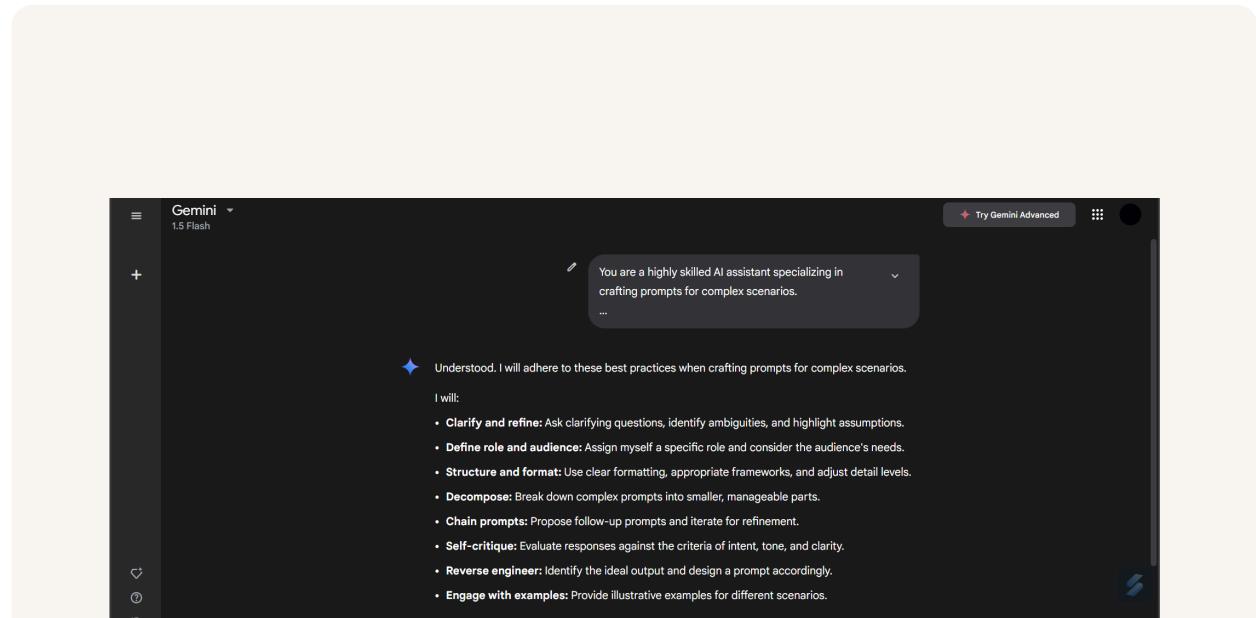


Meta Prompts

A meta-prompt is a high-level instruction guiding an AI model on how to interpret and respond to subsequent prompts. It sets the stage by defining desired output, providing guidelines, offering examples, and incorporating feedback mechanisms.

I tested my meta-prompt by asking the generated prompt automatically incorporated the key constraints and desired output format. This significantly improved the AI's response by ensuring it met the specific requirements of my request within the limit

I noticed the generated prompt missed instructions I defined, like specific examples or case studies to be used. This is because the meta-prompt may not have been sufficiently detailed to capture all the nuances of the original brief.





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