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Prompt Engineering For ChatGPT



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Decomposition:

- Break down broad or complex prompts into smaller, manageable parts to ensure completeness.
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Ask anything

+ Search Reason ...



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Introducing Today's Project!

In this project, I will demonstrate prompt engineering. I'm doing this project to learn different techniques and applications of prompt engineering, from basic techniques (e.g. roles), to meta prompts and even prompt templates for apps.

Tools and Techniques

The AI model I used was ChatGPT. Key techniques I learnt include reverse engineering, prompt chaining, clarifying questions, meta-prompt creation and writing a prompt template for an AI app!

Project reflection

The project took me approximately 2 hours, including demo time. The most challenging part was definitely writing our own prompt template (it gets very detailed)! It was most rewarding to see the BIG impact that small changes in a prompt can make.

I did this project today to learn about prompt engineering and 9 different techniques. This project definitely met my goals and built my skills in creating templates that can help with automating prompt generation or build AI tools.

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Starting the Conversation

Prompt engineering is a technique/process where instructions are given to AI models in a way that guides the model to give specific, useful and accurate results. AI tools use prompts behind the scene by converting user input/button click into prompts

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

My initial impressions of the response are that it is helpful as generic overview of conference, but it's missing personalized tips based on the reader's existing experience level. It also doesn't address specific types of conferences (e.g. tech)

What should I do in a conference?

Attending a conference is a great opportunity to learn, network, and showcase your expertise. Here's how you can make the most of it:

Before the Conference

1. **Plan Your Agenda** – Review the schedule and select key talks, panels, and workshops that align with your goals.
2. **Prepare Your Elevator Pitch** – Have a brief introduction about yourself, your expertise (fullstack development, AI, etc.), and what you're looking for (networking, job opportunities, learning).
3. **Connect Beforehand** – Reach out to speakers, attendees, or companies via LinkedIn or conference apps.

During the Conference

1. **Attend Key Talks & Workshops** – Focus on sessions relevant to your expertise and freelancing goals.
2. **Engage with Speakers & Attendees** – Ask insightful questions during Q&A sessions.
3. **Network Strategically** – Introduce yourself to fellow attendees, speakers, and company representatives. Exchange LinkedIn details or business cards.
4. **Visit Exhibition Booths** – Learn about new tools, frameworks, or job opportunities.

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Basic Prompt Techniques

Foundational strategies to refine my basic prompt include defining a role and audience, asking clarifying questions, decomposition and specifying the output format e.g. tone, length, language level.

Once I used these techniques, I noticed that the AI's response changed by becoming more specific and with more confidence about understanding my use case. I thought the techniques that made the biggest difference were asking clarifying questions.

The screenshot shows a dark-themed AI interface. At the top, there is a text input field containing the instruction: "Write the guide for aliens attending their first tech conference." Below this, a sidebar contains the following text:

OUTPUT FORMAT
- Format: Bulletpoint list, with points bucketed into 3 main categories.
- Length: 200 words.
- Tone: Informative and neutral. Pepper in some light-hearted comments.
- Language level: Jargon free and accessible to a general audience.
- Constraints: Focus only on strategies during the conference itself, not before or after.

The main content area is titled "Guide for Aliens Attending Their First Tech Conference". It is organized into sections with icons:

- 💡 Navigating the Conference Environment**
 - **Follow the Schedule:** Humans organize events into structured time slots. Check the agenda to avoid missing important talks.
 - **Booth Etiquette:** If you have a booth, keep it visually appealing. Humans are drawn to eye-catching displays and free merchandise (known as "swag").
 - **Breaks & Networking Areas:** Conferences have designated spaces for informal chats. These are great for making connections.
- 🌐 Communicating with Humans**
 - **Use Simple Language:** Many humans love jarr ↓ but appreciate clear, concise explanations. Avoid complex intergalactic terminology.

At the bottom of the interface, there is a footer bar with several icons: a microphone icon, a search icon, a reason icon, and a three-dot menu icon. The text "Ask anything" is also visible at the bottom left.

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Advanced Techniques

More advanced techniques include prompt chaining, where I divide an initial request into two parts - the output for the first prompt is the input for the second prompt. For example, I asked for common scenarios before asking for actionable advice.

Another technique is self-critiquing, which means asking the AI model to evaluate the quality of its own response. ChatGPT responded to this with an outline of strengths, improvement areas and even the ability to implement on its own feedback.

You are an expert in alien behaviours and tech conferences.

Critique this guide for gaps, unclear steps, or inconsistencies. Evaluate whether the tone is appropriate for speaking with aliens.

Critique of the Guide for Aliens Attending Tech Conferences

Your guide is well-structured, humorous, and provides actionable advice, but there are a few areas that could be improved for clarity, consistency, and appropriateness for an alien audience.

1. Clarity & Practicality for Aliens

Strengths:

- The guide provides step-by-step solutions that are easy to follow.
- It avoids overly technical language that might confuse an alien unfamiliar with Earth customs.
- It considers both human and alien perspectives, making it balanced.

Areas for Improvement:

- Some solutions assume aliens are familiar with human technology (e.g., "Set up a digital profile on Earth platforms"). This might not be feasible if they lack internet-compatible devices.
- Alternative solutions should be added in case an alien cannot physically interact with human tools.

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Specialized Techniques

Reverse engineering is helpful when you are wanting to generate a specific prompt that will help you create your model response. I used this technique to reverse engineer an existing post on the topic and replicate with ChatGPT's suggested prompt.

Creative frameworks are structured approaches that help organize content effectively. You can think of them as templates for presenting ideas clearly and logically. For example Problem-Solution-Benefit, Before-After-Bridge.

You are a prompt engineer. What prompt would you give an AI model to generate this output?

How to Blend in at a Tech Conference (Alien Edition)

- 1 Choose Your Disguise: Business casual. Hoodies with startup logos are ideal. Bonus points for wearing ALL the free conference swag.
- 2 Learn the Lingo: Say "synergy," "disruptive," and "the cloud" at random. Nods are optional but encouraged.
- 3 Fake Coffee Obsession: Hold a latte and mutter "Is this oat milk?" even if you don't know what oats are.
- 4 Awkward Networking: Stand in a group, nod, laugh too loudly, then silently exit.
- 5 Ask Insightful Questions: "How does this scale with AI?" works for any topic.
- 6 Avoid Detection: Do NOT charge your spaceship at the EV station.

Good luck, Earthling!

Here's a prompt you could use to generate this kind of output:

"Write a humorous, lighthearted guide titled 'How to Blend in at a Tech Conference (Alien Edition)'. The tone should be witty and playful, as if giving advice to an extraterrestrial trying to pass as a human. Include six numbered tips that exaggerate common tech conference stereotypes, such as startup culture, networking awkwardness, buzzwords, and coffee obsession. End with a funny farewell message that reinforces the alien theme."

This prompt ensures the AI follows the intended theme, tone, and structure while encouraging creativity.

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Meta Prompts

A meta-prop is a prompt that gets ChatGPT to become a prompt writer for us. I structured my meta-prompt by layering multiple techniques, and writing headers for each technique e.g. role and audience context, decomposition, reverse engineering etc.

I tested my meta-prompt by asking it to generate a prompt related to attending a tech conference. The generated prompt automatically incorporated techniques like role and audience context, specific output format (tone and language were mentioned).

I noticed the generated prompt missed instructions I defined, like self-critiquing, and it eventually lost context of frameworks and follow-up prompts (prompt chaining). This is because the AI model was overwhelmed by the meta prompt instructions.



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