



Prompt Engineering



Crafting Prompts for Optimal AI Interaction
By Sameer Jaokar



Before we begin

- Login to OpenAI.com
- Create an account if you don't have one
- Get the Plus membership. You can cancel it anytime later.
 - Access to GPT 4
 - 175 T parameters
 - Ability to get latest information from the web
 - Ability to create Custom GPTs and Assistants
 - Ability to call Assistants via API calls
- Later we will be using Jupyter Notebook



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Topics for today

- Prompting
 - Creating effective prompts
 - Pro tips
- Prompt helper
 - Using the <https://mitenmit.github.io/gpt/>
- Custom GPTs
 - How to create them and use them
 - Create CustomGPTs with documents - Job Application Helper
- Custom AI Assistant
 - Creating Custom AI Assistant
 - Calling Assistant API from Python Code
- Introducing AI Model - Simba

AI Model Simba



Model Simba capabilities

- $1+1$
- $\log_{10} 100$
- |Square root of 4|
- |cube root of 8|
- 1001-999
- 100/50
-

Introduction to Prompt Engineering

- ChatGPT is not Google
- ChatGPT = Garbage-in Garbage-out;

Anatomy of an Effective Prompt

Pretty Turtles Can Eat Tiny Fish

[Persona] : Act like someone

[Task] : Tell ChatGPT what you want it to do

[Context] : Limit the scope

[Example] : Provide an example

[Tone] : Tone of the output/Audience persona

[Format] : Output format

*Temperature: Creativity Level

*Ask Questions

Example of Prompts - step by step

- Wine suggestion example.
- Cron Expression generator example.
- RegEx generator example.

LLM Prompt creator

<https://mitenmit.github.io/gpt/>

Pro tips

- Custom instructions - why not to use or how to use them
 - How to use 'Writing style in prompts'
- First shot answer
- Summary only
 - How does this article apply to a <<persona>> (e.g. an AI enthusiast that wants to stay on top of latest trends and news)
- Use PDF/document to ask questions
 - Assume the role of <<persona>> (sr. business analyst) for the rest of this conversation
 - I'd like to engage in a Q&A session where you will provide me with insights, analysis and answers based on the uploaded document.
- Ask ChatGPT to create prompts for you.
 - You are <<persona>>, I am <<persona>>, give me 10 prompts to become more productive in my job

Custom GPTs

Personal Job Application Assistant

- Check for job suitability
- Write a cover letter emphasising each job requirement with achievements from resume and/or PSR document
- Help prepare for interview

Customer information extractor

- Extract customer information from email (unstructured data)

AI Assistant

AI Assistant

Demo - How to call the AI Assistant APIs from Python code.

Git repository: <https://github.com/sameerjaokar/SameersPromptEngg.git>

Thank you!

