Prompt **Engineering**

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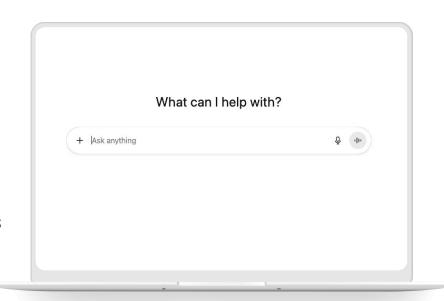
Today's Agenda

What is Prompt Engineering?

More than just what you type "in the box"

What happens in the background How are AI products processing your requests

How can you maximize the accuracy of Al responses



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Terms

LLM - Large Language Model **GPT** - Generative, Pre-Trained Transformers

Context

Context Window

Tokens - Chunks of data that model processes

Parameters - How much the model can learn

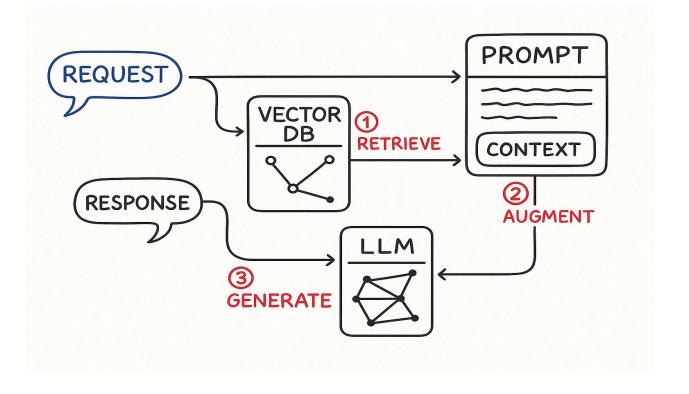
Types of Prompts - zero shot, multi-shot, chain of thought

RAG

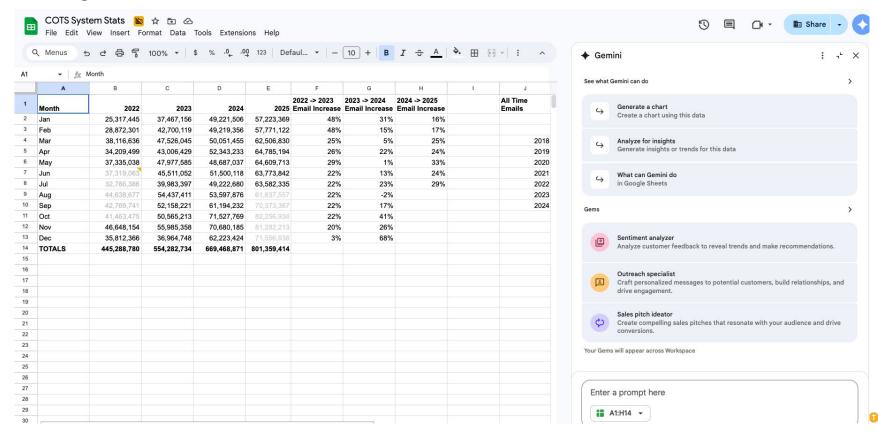
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Retrieval-Augmented Generation

RAG

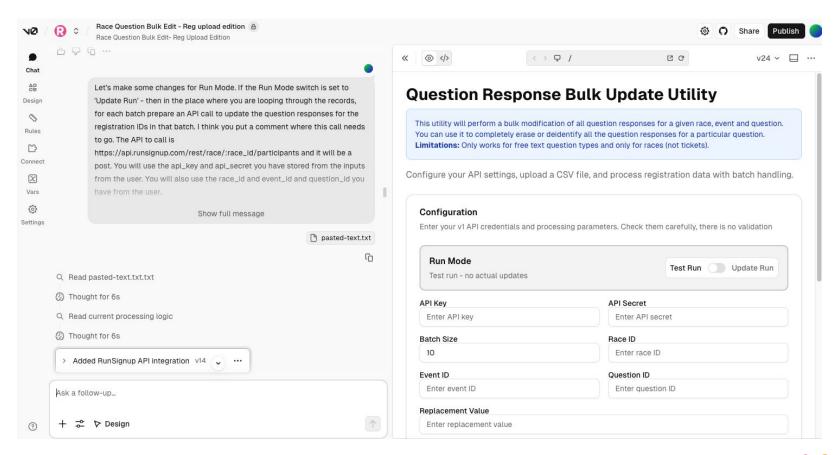


Google Sheets





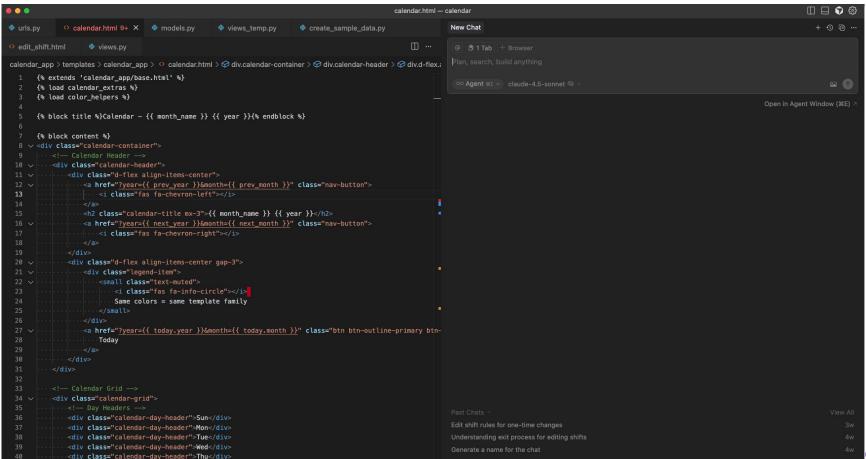
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· · · Cursor



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Auto context

- Open files
- Cursor location (and nearby code)
- Recent edits
- Chat history

Manual context

- Your prompt
- Files you give it
- Cursor Rules
- Images
- Code index

What gets sent to the model

- System prompt (Hidden behavior rules)
- Auto context
- Manual context

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- Anthropic's Claude, Open Al's GPT, Google's Gemini
- Receives the Cursor prompt and performs the task

How to talk to LLMs

- Manage context
 - o Give good examples for format and patterns
 - Manage chat history by keeping each session specific to the task and use *few-shot prompting* or to think out loud step by step
 - o Coding specific: Only keep relevant files open
- Prompt Engineering
 - Avoid hallucinations
 - LLMs are trying to complete the task whether they know the answer or not.
 - Give them an out by saying "you can say you do not know" or "Ask follow up questions for clarification"
 - o Use few-shot prompting
 - Avoid one large prompt (one shot)
 - Keep it conversational before asking it to complete a task
 - Use it as a copilot, give it information, examples, background, allow it to ask you clarify questions
 - This will build up the chat history context to give better results





Thank You



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