

Automation Workflow with Generative AI



Topics

Automation Workflow
Generative AI (GenAI)
Prompt engineering
Workshop with GenAI
Workshop with use cases



Workflow ?

Series of steps taken in a specific order to complete goal
Product and business process

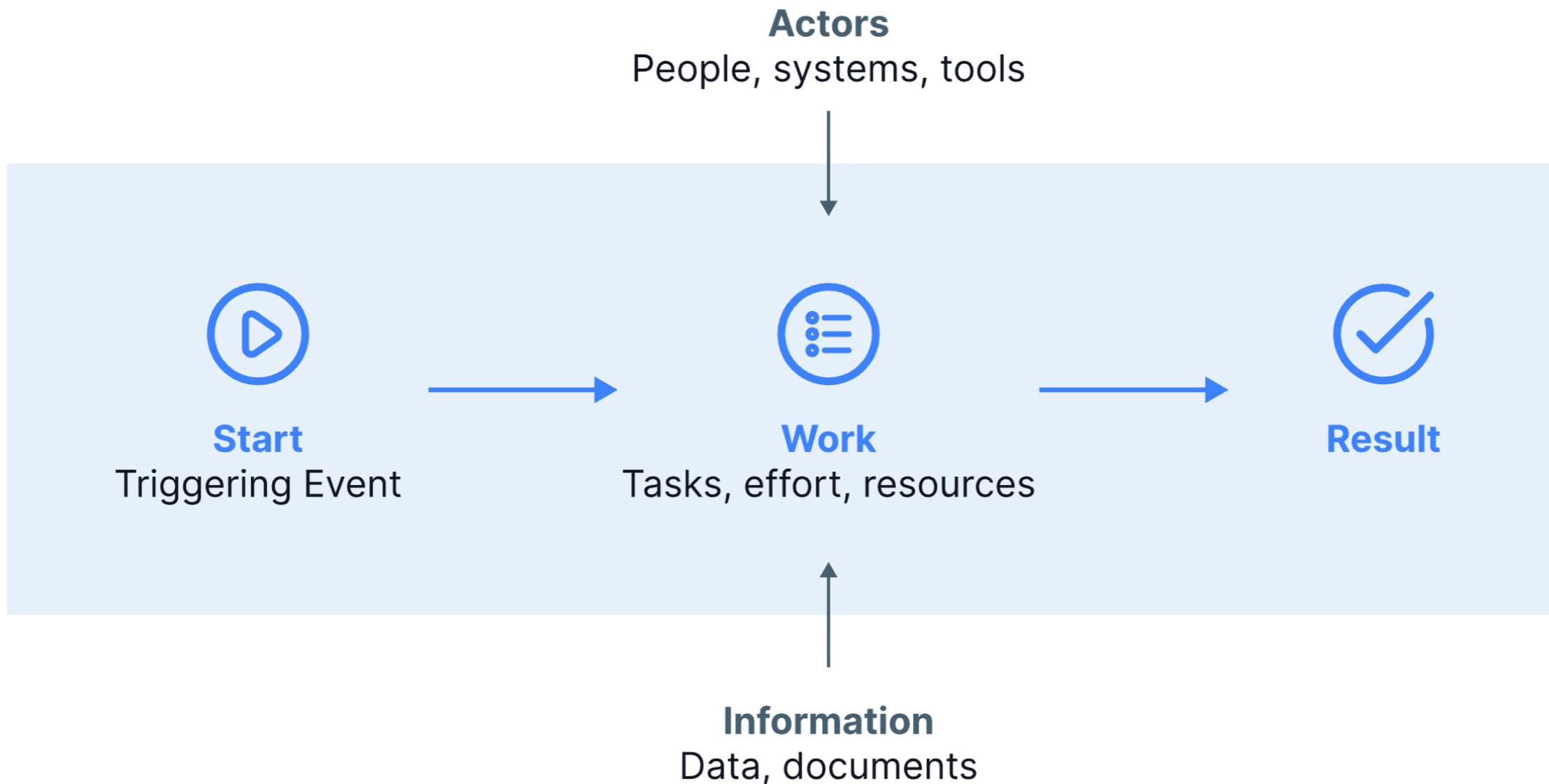
Reduce rework

More efficiency

Increase
productivity



Anatomy of Workflow ?



Key aspects of workflow ?

Defined steps

Specific order

Clear responsibility

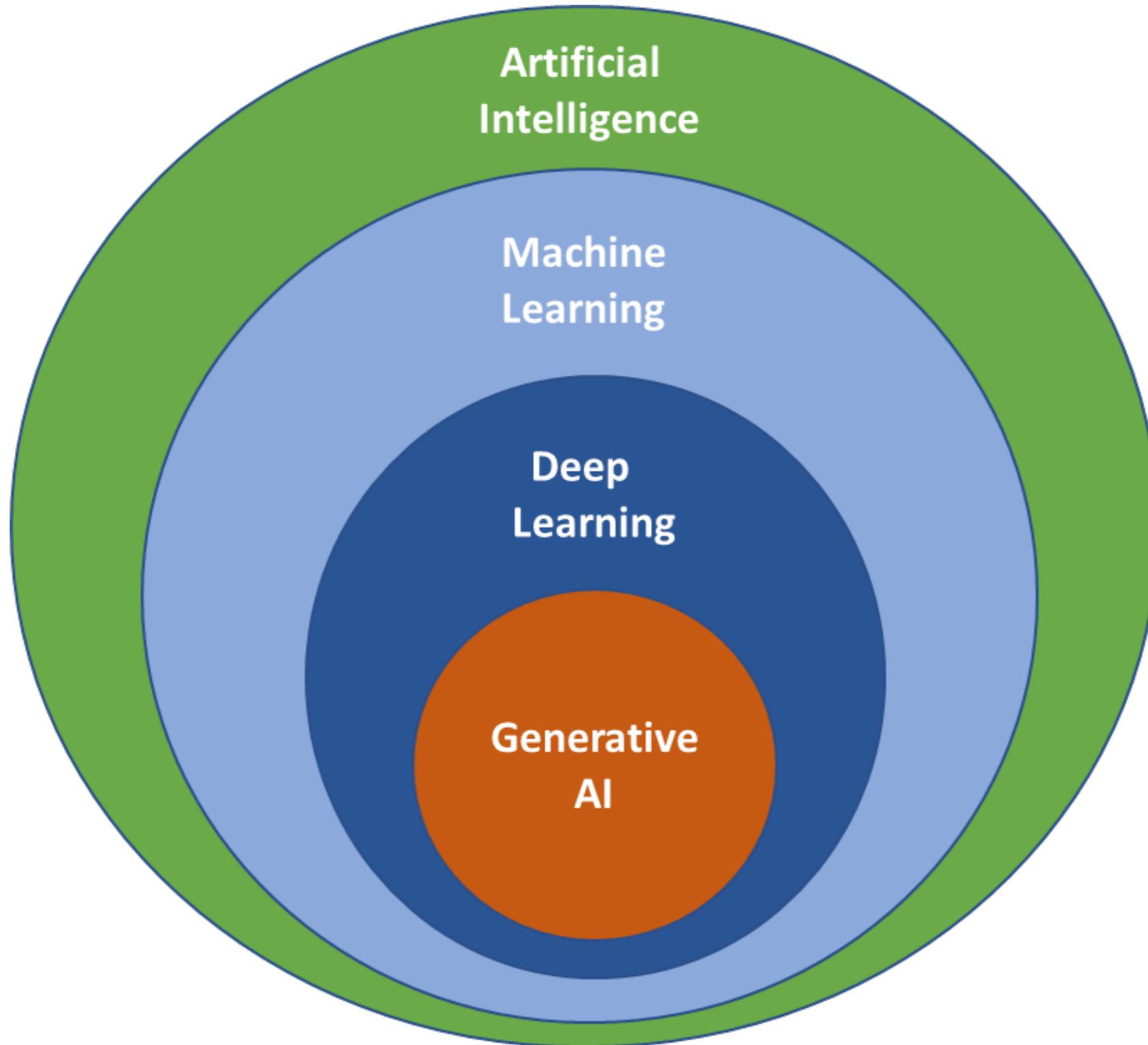
Efficiency (standardize, reduce confusion/duplication)

Automation (from manual to automated)

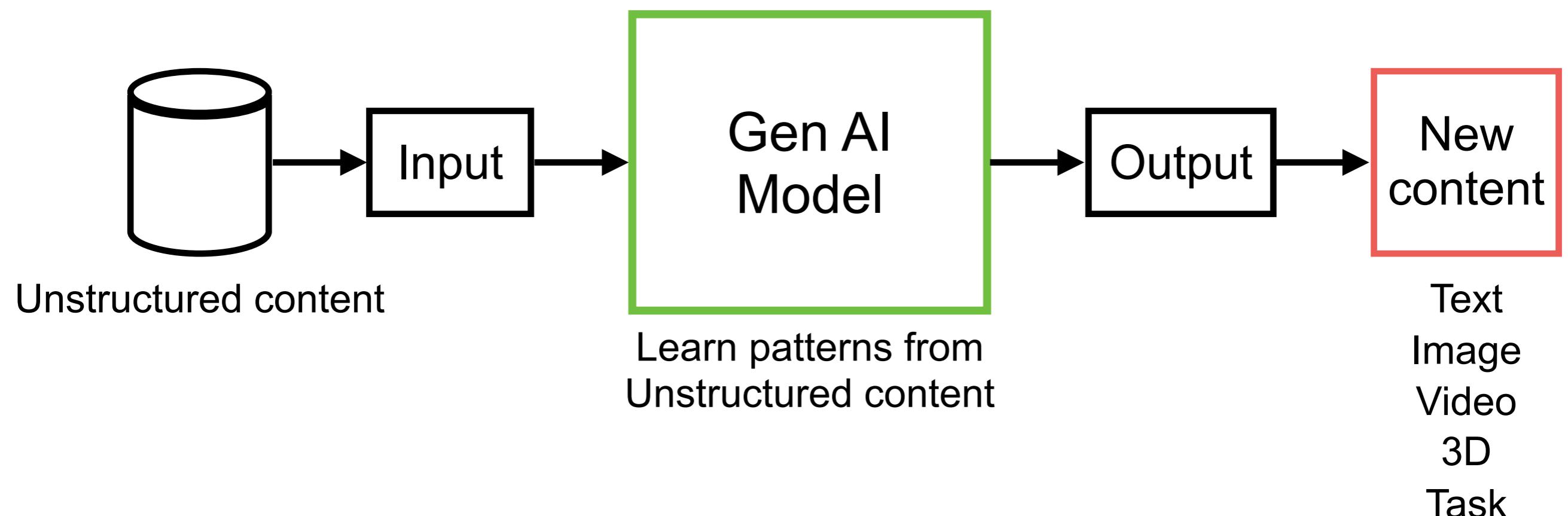


Generative AI



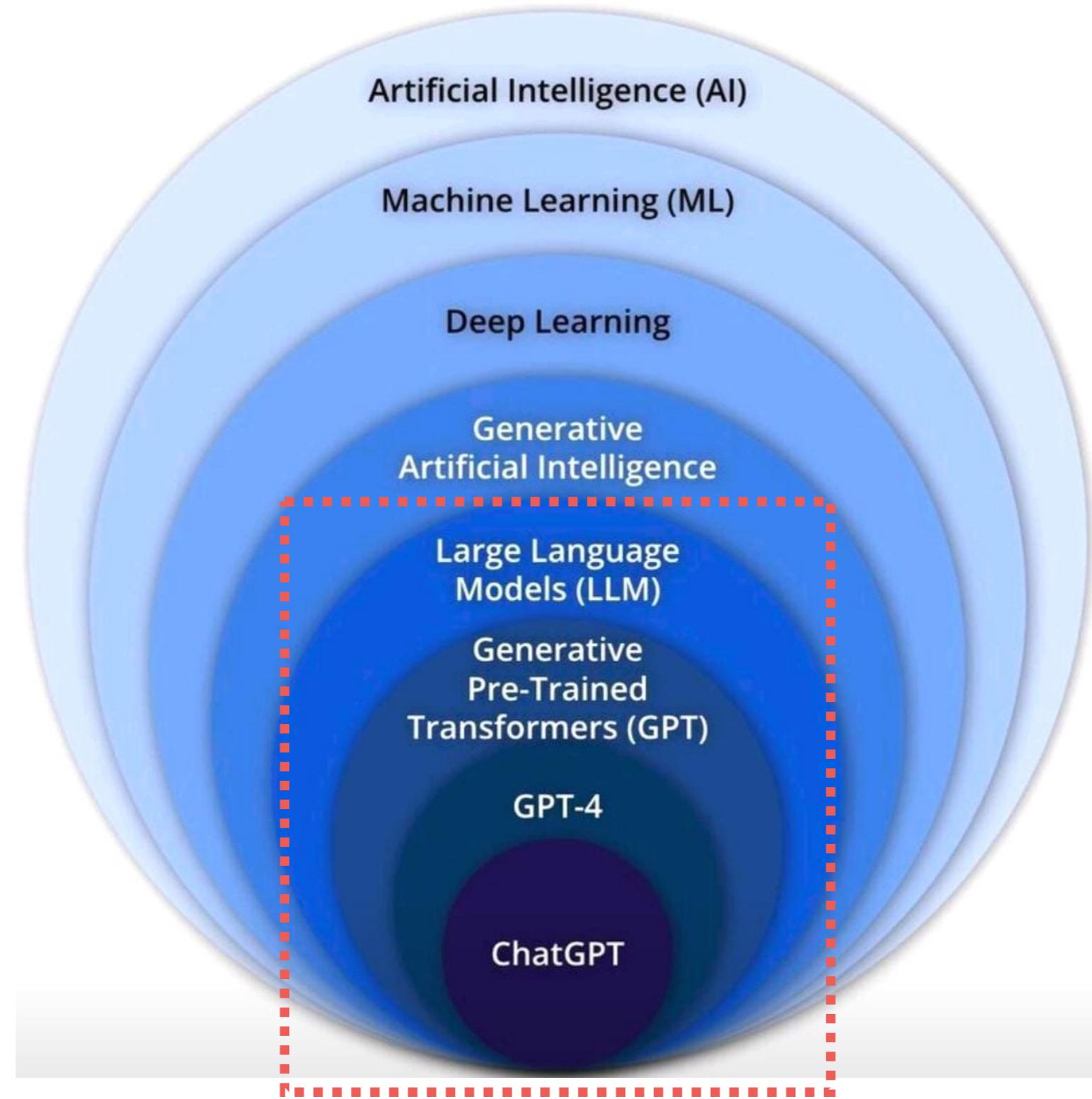


Generative AI



<https://grow.google/ai-essentials/>





LLMs in industry

Model name	Company
Bidirectional Encoder Representation from Transformers (BERT)	Google AI
Generative Pre-trained transformer-5 (GPT-5)	OpenAI
Pathways Language Model-E (PaLM-E)	Google AI
BLOOM	NVIDIA AI
Llama 4	Facebook
Claude 4.5 Sonnet	Anthropic



LLM Development timeline

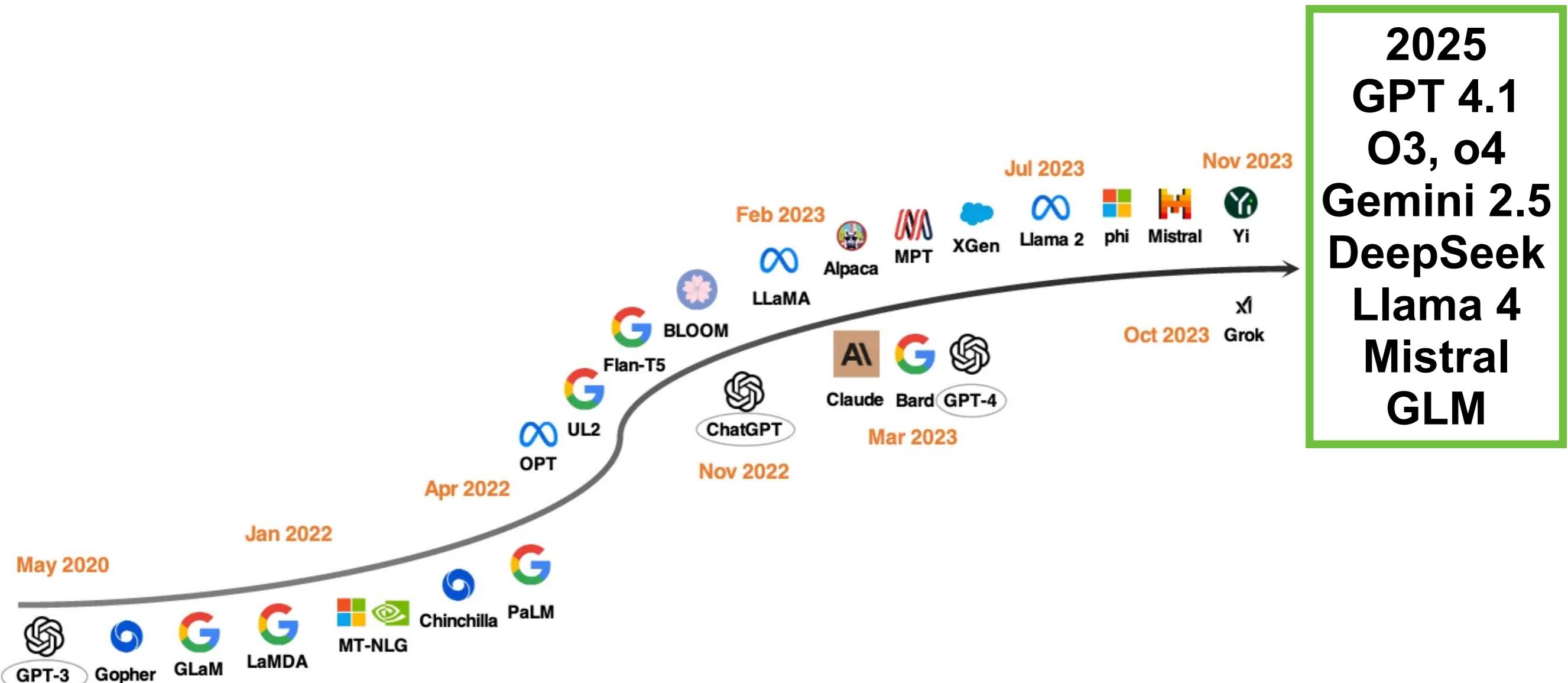


Figure 3: LLM development timeline. The models below the arrow are closed-source while those above the arrow are open-source.

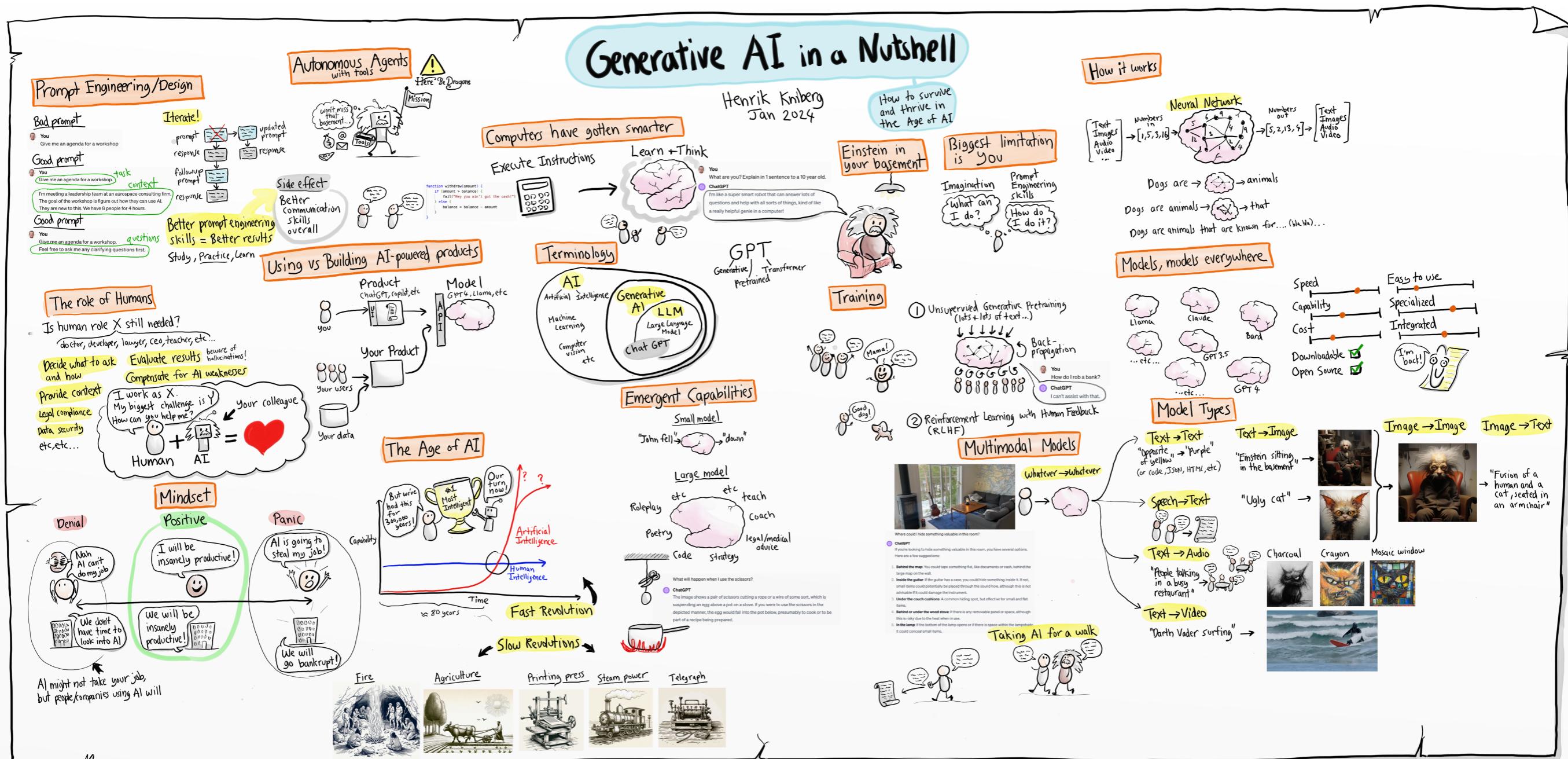
<https://arxiv.org/abs/2311.16989>



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Generative AI in Nutshell



<https://www.youtube.com/watch?v=2IK3DFHRFFw>



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AI Tools



AI Tools ?

Gemini



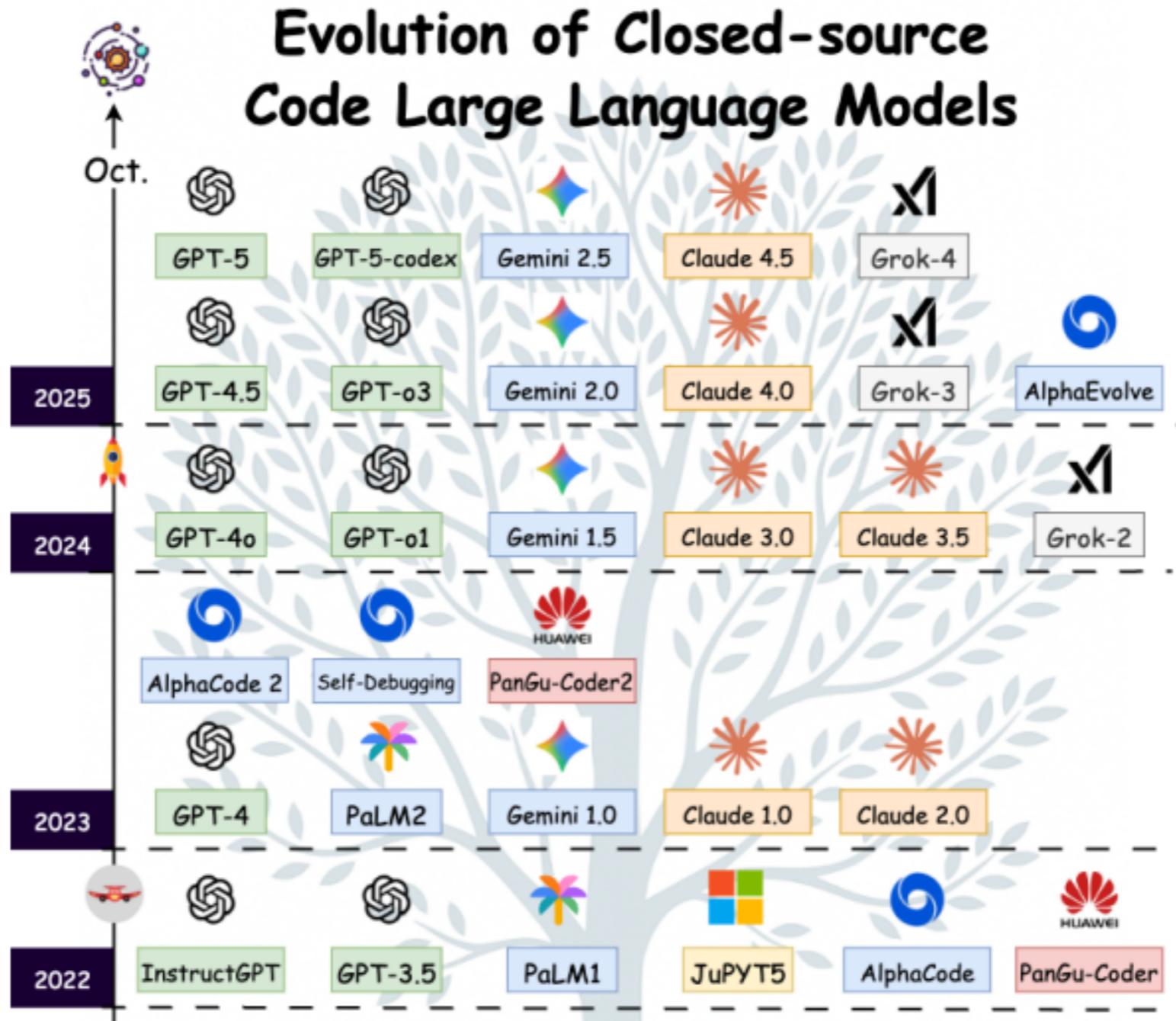
ChatGPT



Google
NANO BANANA



AI Models ?



<https://huggingface.co/papers/2511.18538>



Model Specification ?

GPT-5.1 Default ⚙️ ⚡

The best model for coding and agentic tasks with configurable reasoning effort.

Compare Try in Playground

REASONING	SPEED	PRICE	INPUT	OUTPUT
💡💡💡💡	⚡⚡⚡⚡	\$1.25 · \$10 Input · Output	Text, image	Text
Higher	Fast			

GPT-5.1 is our flagship model for coding and agentic tasks with configurable reasoning and non-reasoning effort. Learn more in our [GPT-5.1 usage guide](#).

- ❖ 400,000 context window
- ➡ 128,000 max output tokens
- 📅 Sep 30, 2024 knowledge cutoff
- 💡 Reasoning token support

<https://platform.openai.com/docs/models/gpt-5.1>



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Model Specification ?

Token

Context window

Knowledge cutoff



Token ?

GPT-4o & GPT-4o mini GPT-3.5 & GPT-4 GPT-3 (Legacy)

สวัสดีประเทศไทย

Clear Show example

Tokens	Characters
5	15

สวัสดีประเทศไทย

Text Token IDs

<https://platform.openai.com/tokenizer>



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Context Window ?

The amount of text , measured in **token**, that the model can process at one time (working memory)



CONTEXT WINDOW IN LLMS



Long Context Window is better ?

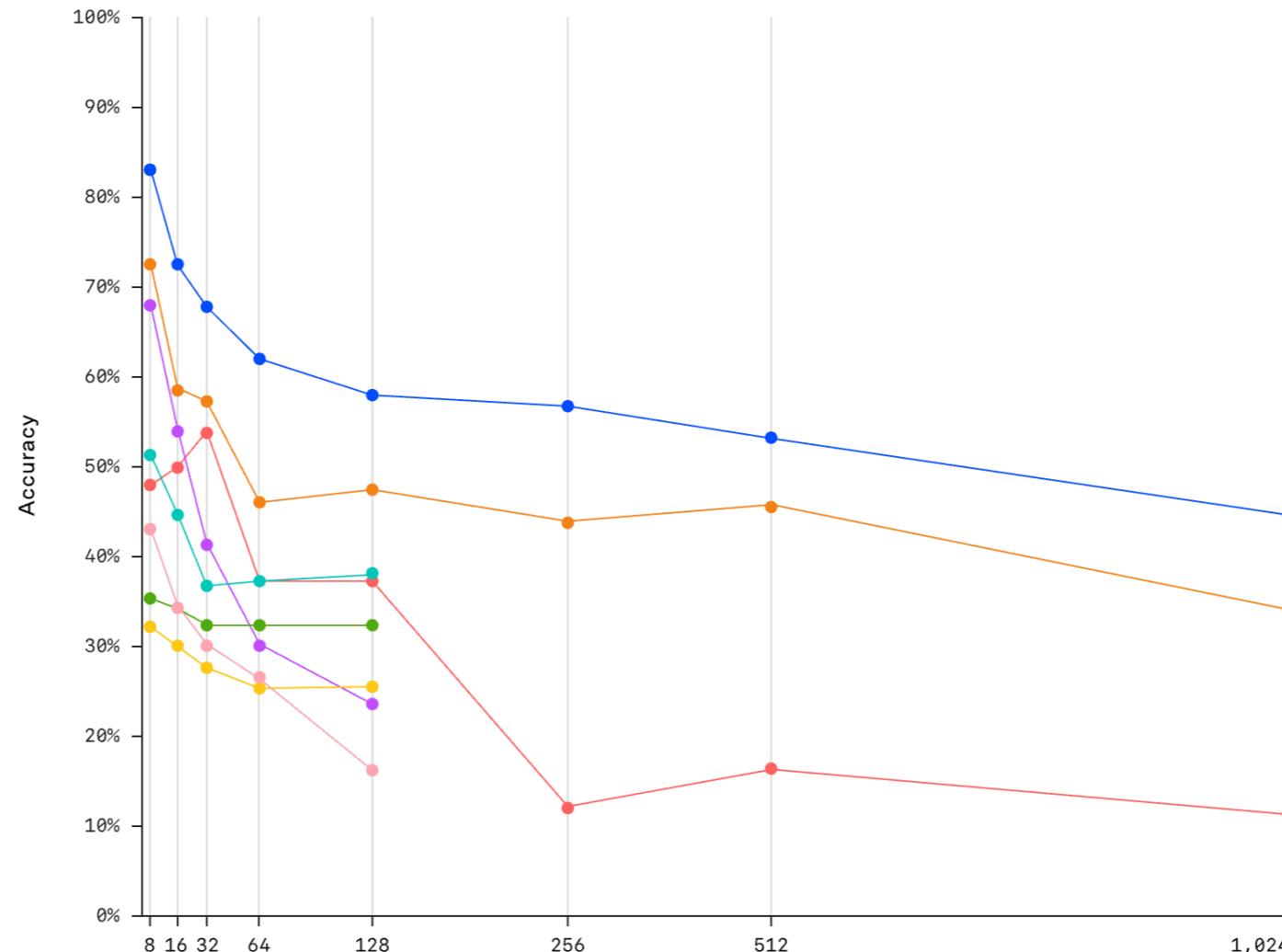
Accuracy

OpenAI-MRCR Accuracy



GPT-4.1 GPT-4.1 mini GPT-4.1 nano GPT-4.5 GPT-4o (2024-11-20)
GPT-4o mini OpenAI o1 (high) OpenAI o3-mini (high)

2 needle accuracy vs input tokens



of tokens

<https://openai.com/index/gpt-4-1/>

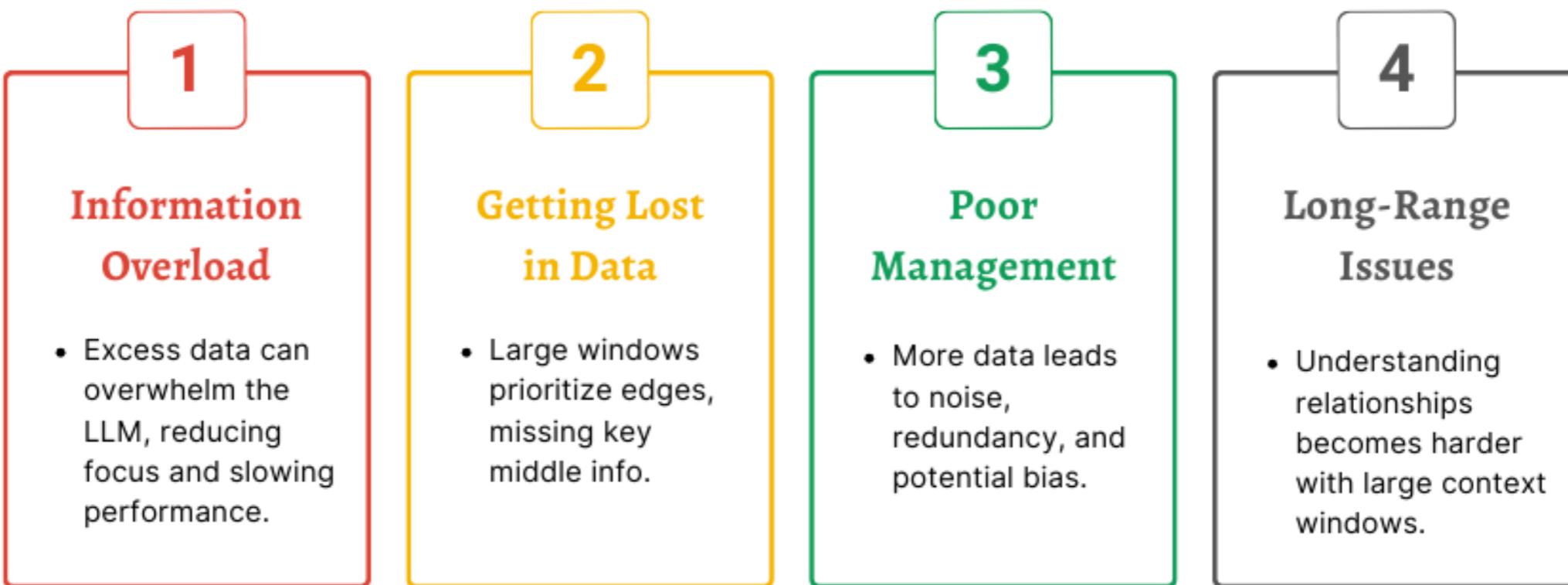


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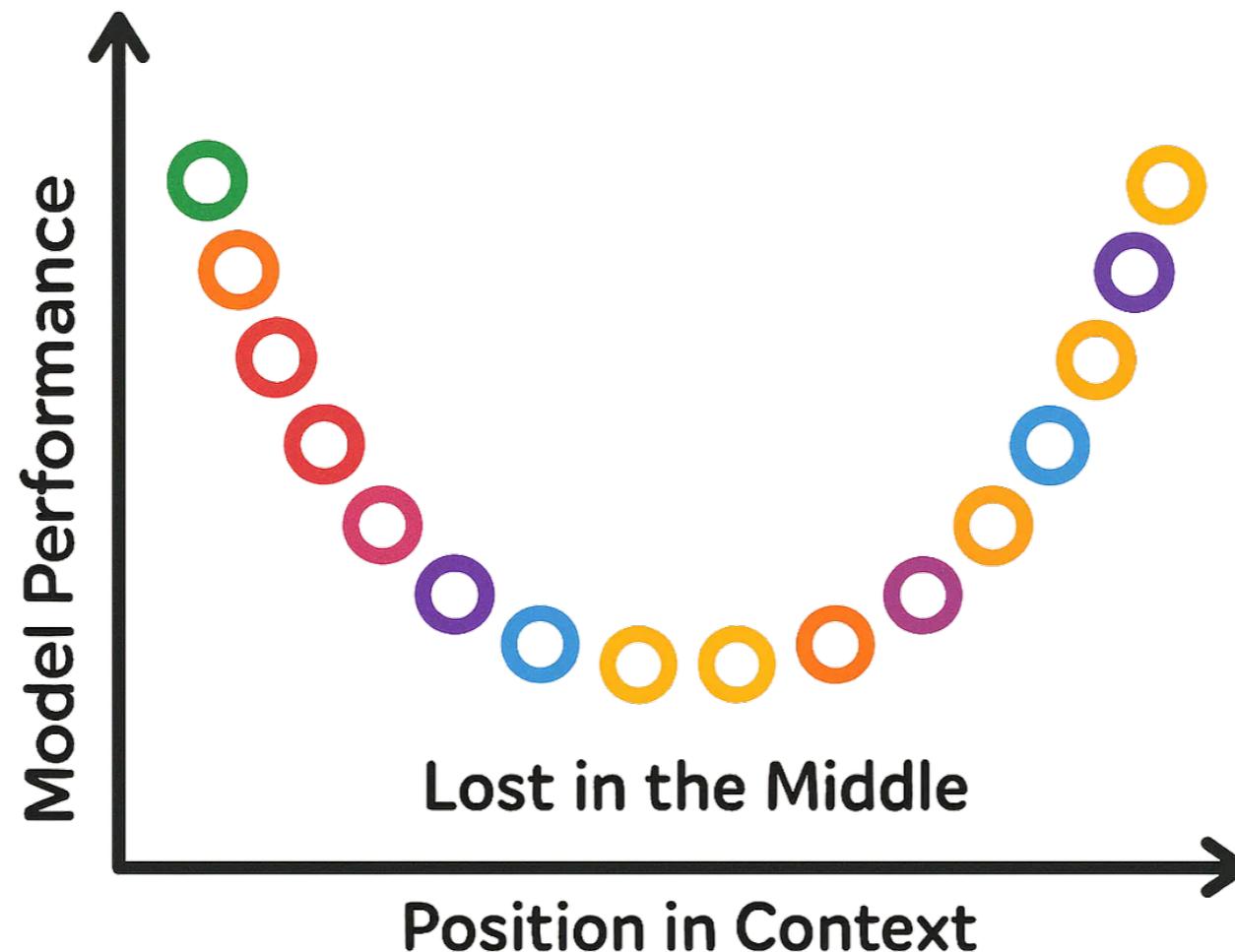
Long Context Window !!

Why Bigger Context Windows Aren't Always Better?



Long Context Window !!

Lost in the middle problem in LLM ?

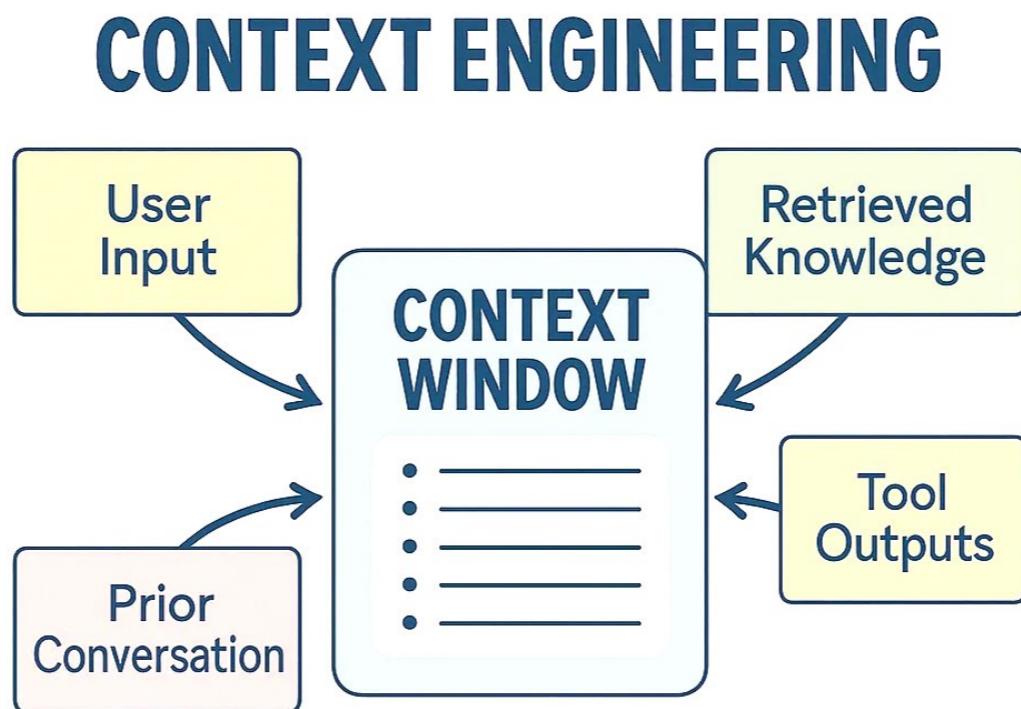


<https://arxiv.org/abs/2307.03172>



Context Engineering

Provide information and tool that need for AI to complete a task



Filling the right information in the right format, so the LLM can complete the task

<https://addyo.substack.com/p/context-engineering-bringing-engineering>



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AI Prompt Engineering



AI Prompt Engineering ?

The process of crafting **instructions** for generative AI models to get desired outputs using a combination of **science** and **art**

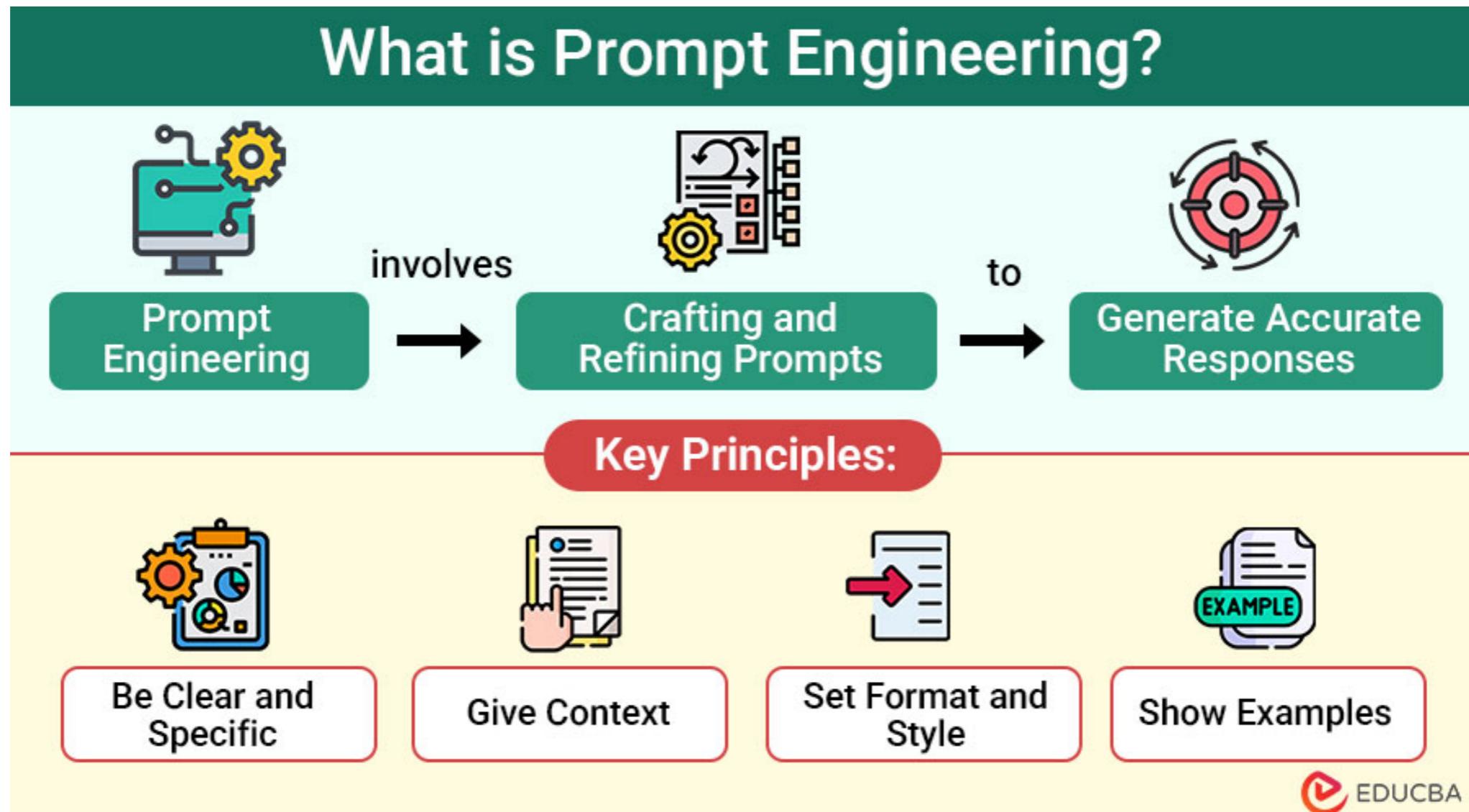
Improve output

Increase efficiency

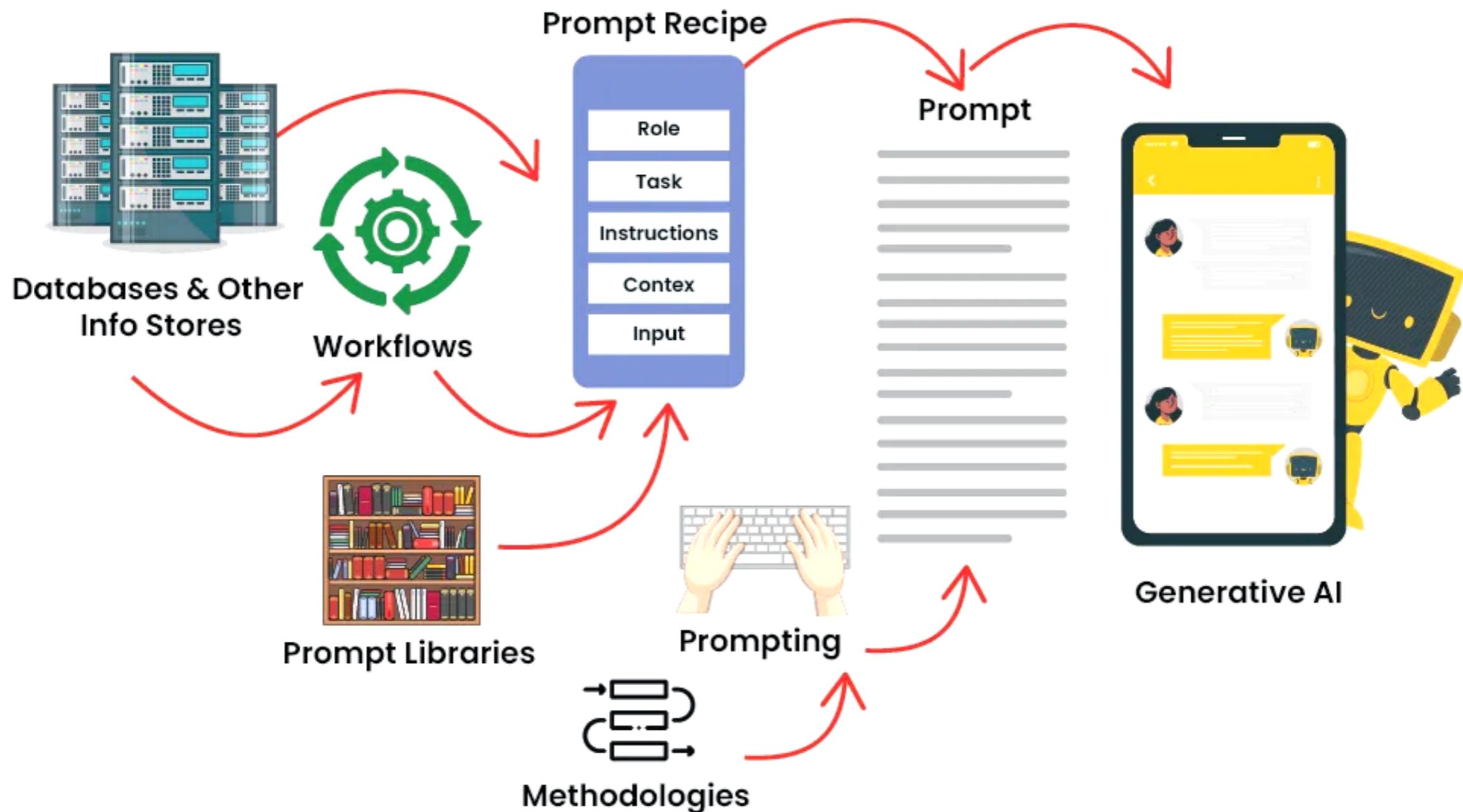
Unlocks potential of AI



AI Prompt Engineering ?



AI Prompt Engineering ?



<https://www.geeksforgeeks.org/artificial-intelligence/what-is-an-ai-prompt-engineering/>



Prompting Guide

Prompt Engineering

Prompt Engineering Guide

Prompt engineering is a relatively new discipline for developing and optimizing prompts to efficiently use language models (LMs) for a wide variety of applications and research topics. Prompt engineering skills help to better understand the capabilities and limitations of large language models (LLMs).

Researchers use prompt engineering to improve the capacity of LLMs on a wide range of common and complex tasks such as question answering and arithmetic reasoning. Developers use prompt engineering to design robust and effective prompting techniques that interface with LLMs and other tools.

Prompt engineering is not just about designing and developing prompts. It encompasses a wide range of skills and techniques that are useful for interacting and developing with LLMs. It's an important skill to interface, build with, and understand capabilities of LLMs. You can use prompt engineering to improve safety of LLMs and build new capabilities like augmenting LLMs with domain knowledge and external tools.

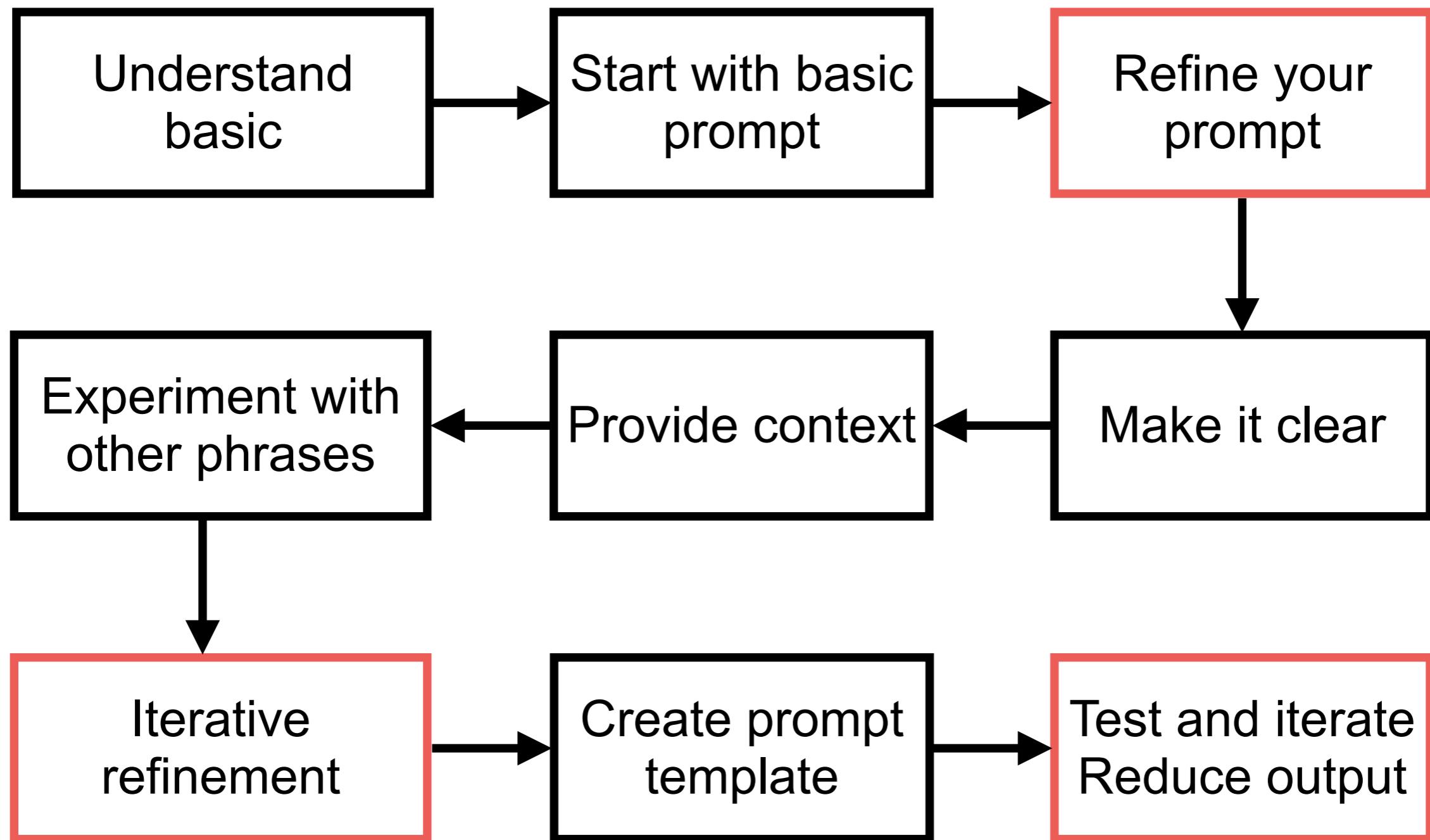
<https://www.promptingguide.ai/>



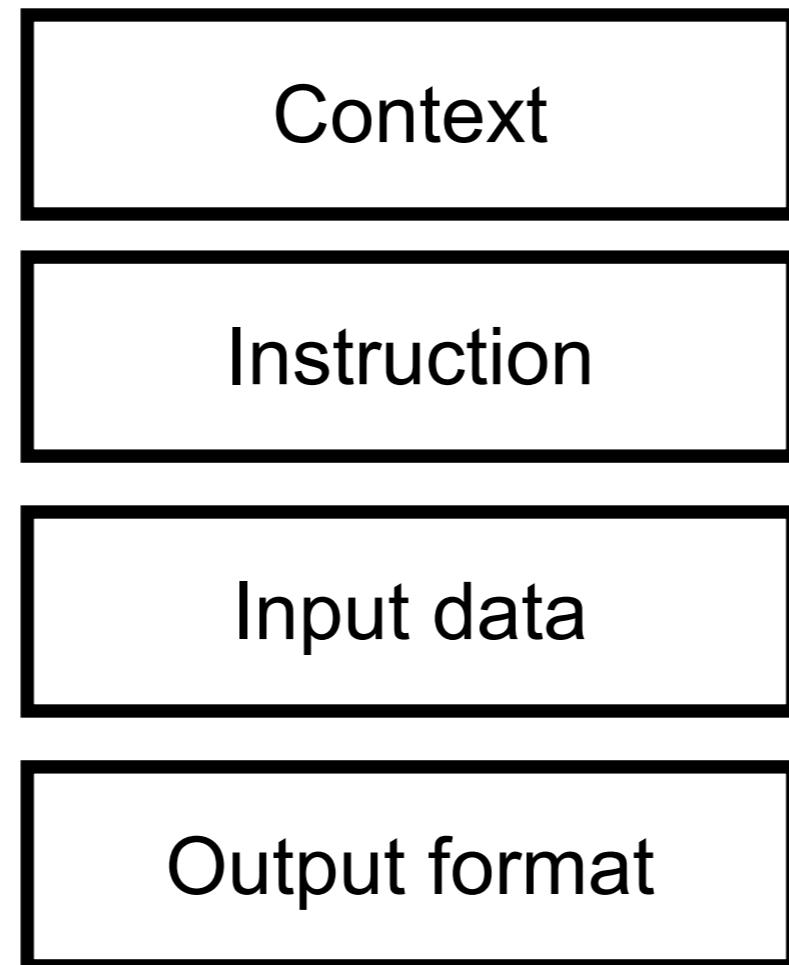
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Basic of Prompt Engineer



Structure of Prompt ?



<https://platform.openai.com/docs/guides/prompt-engineering>



Structure of Prompt !!

APE
Action, Purpose,
Expectation

RACE
Role, Action,
Context,
Expectation

TAG
Task, Action, Goal

COAST
Context, Objective,
Action, Scenario,
Task

RISE
Role, Input, Step,
Expectation

<https://twitter.com/pradeepeth/status/1673271866696544257>



Better Prompt

Write clear instructions

Provide reference text

Split complex tasks into simpler subtasks

Give the model time to think

Testing and improve ...

<https://platform.openai.com/docs/guides/prompt-engineering/six-strategies-for-getting-better-results>



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Prompt with AI Workshop



List of workshop with AI

Basic of good prompt

Read data from many datasources

Summarizing content

Generate outputs (text, file, audio)



Prompt Workshop

Text summarization
Information extraction
Question answering
Text classification
Conversation

<https://www.promptingguide.ai/introduction/examples>



Workflow Steps

Input the content (text, document, audio, video)

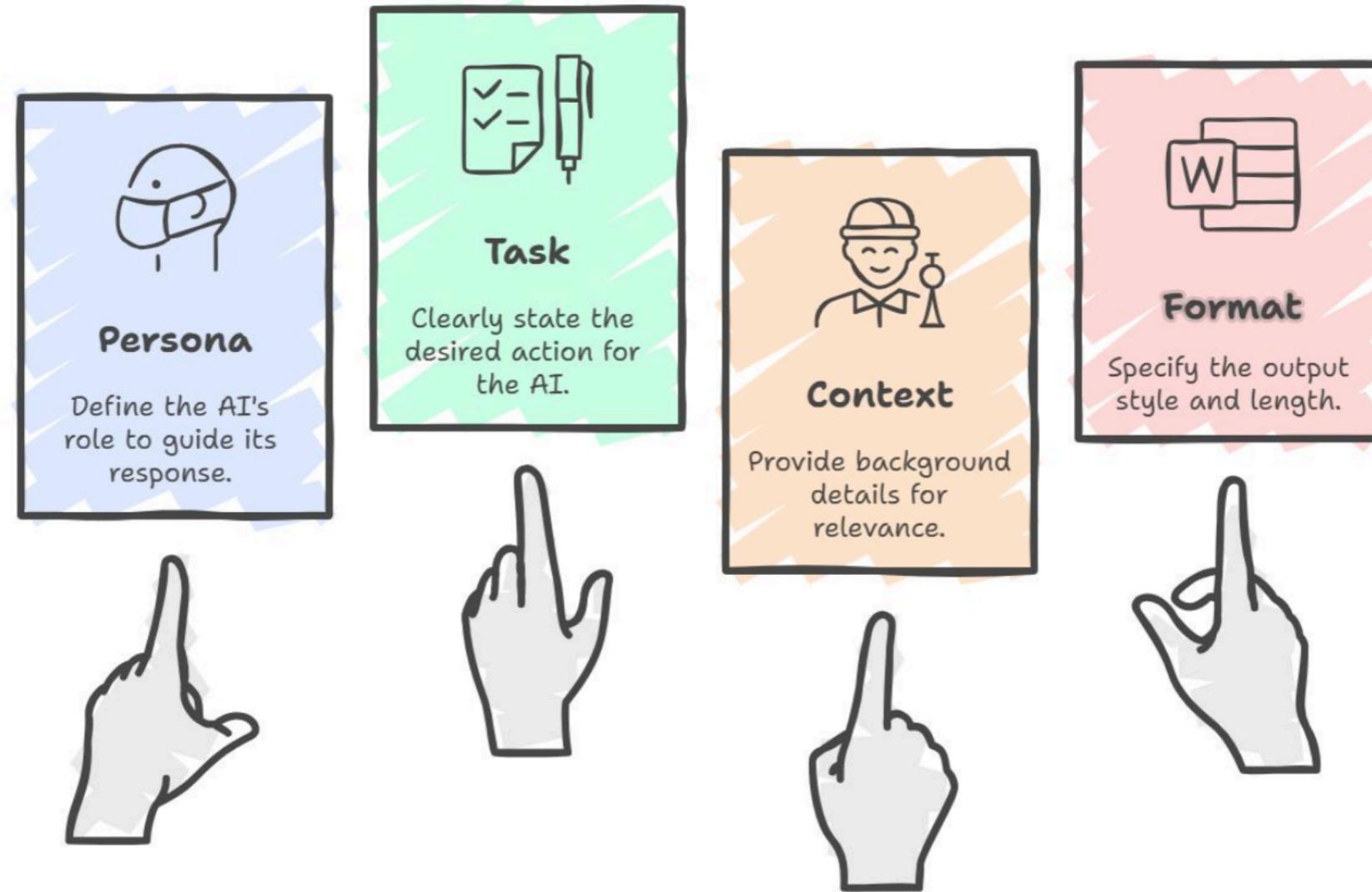
Provide instructions (prompting)

AI processing

Review and refine



Better prompt from Gemini



Persona: Tell Gemini what role to play, which gives it some context for how to behave and respond.

✍ Help me write

I am a customer service representative. Help me craft an empathetic email response. The customer ordered a pair of headphones that arrived damaged. Include a paragraph that acknowledges their frustration and 3 bullet points with potential resolutions.

Create



Task: Tell Gemini what you need it to do (summarize, write, change the tone, create, etc.), and use a verb.

✍ Help me write

I am a customer service representative. Help me craft an empathetic email response. The customer ordered a pair of headphones that arrived damaged. Include a paragraph that acknowledges their frustration and 3 bullet points with potential resolutions.

Create



Context: Provide as much relevant background as possible.

✍ Help me write

I am a customer service representative. Help me craft an empathetic email response. The customer ordered a pair of headphones that arrived damaged. Include a paragraph that acknowledges their frustration and 3 bullet points with potential resolutions.

Create



Format: Be specific when specifying desired structure.

✍ Help me write

I am a customer service representative. Help me craft an empathetic email response. The customer ordered a pair of headphones that arrived damaged. Include a paragraph that acknowledges their frustration and 3 bullet points with potential resolutions.

Create



List of tools ?



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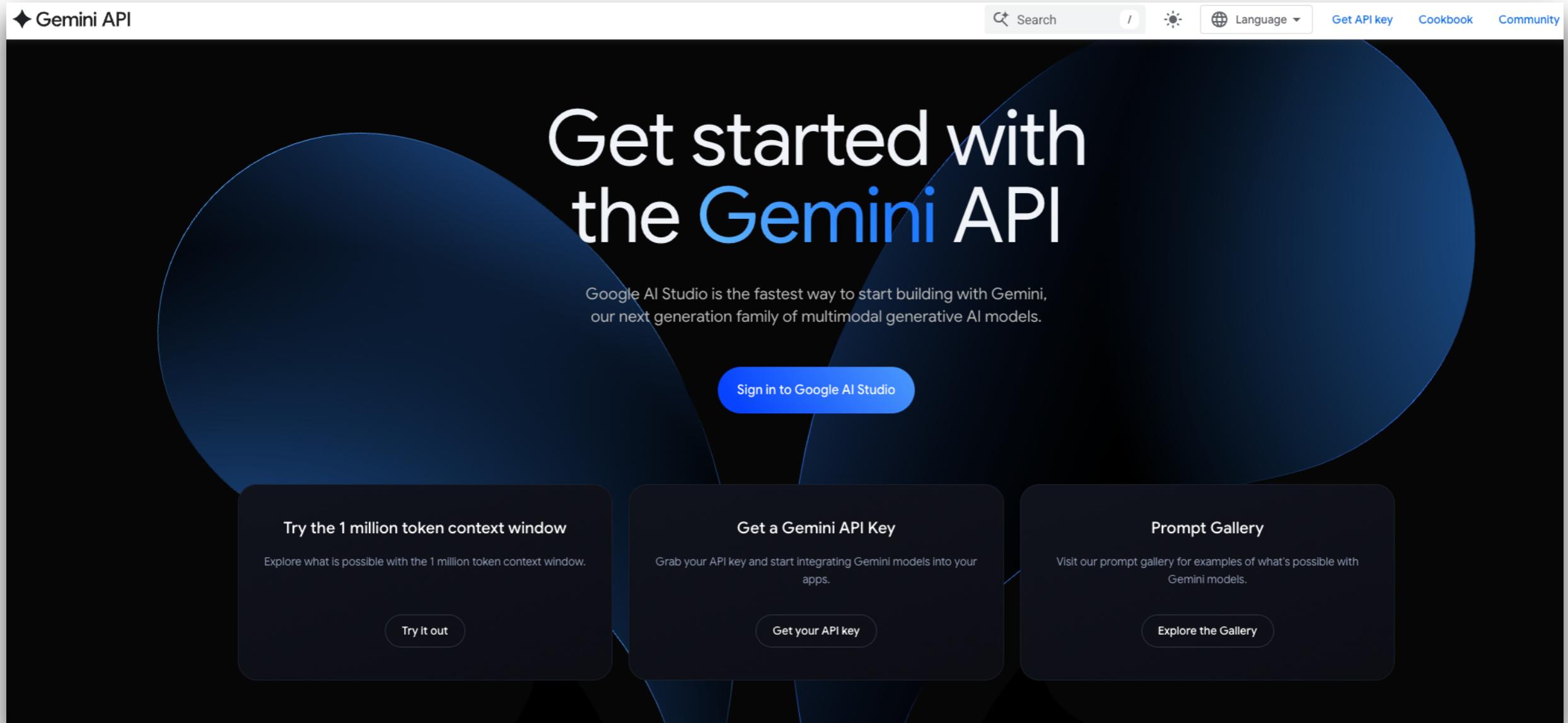
Google Gemini

The screenshot shows the Google Gemini AI interface. At the top left is the 'Gemini' logo. On the right are buttons for 'Upgrade to Google AI Plus' and a user profile icon. Below the header is a large blue text 'Hello, somkiat'. A central input field is labeled 'Ask Gemini' and includes a '+' button, a 'Tools' section, a 'Fast' dropdown, and a microphone icon. Below the input field are five circular buttons: 'Create Image' (with a camera icon), 'Write', 'Build', 'Deep Research', and 'Learn'. The bottom left corner features a gear icon.

<https://gemini.google.com/app>



Google Gemini API



The screenshot shows the homepage of the Google Gemini API. At the top, there's a navigation bar with a logo, a search bar, language selection, and links for "Get API key", "Cookbook", and "Community". The main title "Get started with the Gemini API" is prominently displayed in large white and blue text. Below it, a subtitle reads: "Google AI Studio is the fastest way to start building with Gemini, our next generation family of multimodal generative AI models." A central call-to-action button says "Sign in to Google AI Studio". To the left, a box for "Try the 1 million token context window" includes a "Try it out" button. In the center, a box for "Get a Gemini API Key" has a "Get your API key" button. To the right, a box for "Prompt Gallery" has a "Explore the Gallery" button.

<https://ai.google.dev/aistudio>



ChatGPT

The screenshot shows the ChatGPT web interface. At the top left is a sidebar with icons for profile, search, and other functions. The main area has a title "ChatGPT" with a dropdown arrow. Below it is a search bar with placeholder text "What's on the agenda today?". To the right of the search bar are icons for microphone and zero messages. A dropdown menu is open from the search bar, listing options: "Ask anything" (selected), "Add photos & files", "Create image", "Thinking", "Deep research", "Shopping research", and "... More". A small "SP" icon is at the bottom left of the main area.

<https://chatgpt.com/>



Google NotebookLM

The screenshot shows the Google NotebookLM interface. At the top left is the title "Untitled notebook". On the right are buttons for "Analytics", "Share", "Settings", "PRO", and a user profile icon. The interface is divided into three main sections:

- Sources:** Contains a button "+ Add sources", a "Try Deep Research" card, a search bar "Search the web for new sources", and a "Web" dropdown. It also includes a note about saved sources and instructions to add files from Google Drive.
- Chat:** A central area with a large "Add a source to get started" button, an "Upload a source" button, and a note about the NotebookLM's accuracy.
- Studio:** A section on the right with buttons for "Audio Overview", "Video Overview", "Mind Map", "Reports", "Flashcards", "Quiz", "Infographic", and "Slide Deck". It also includes a note about where studio output is saved.

At the bottom center is the URL <https://notebooklm.google/>.



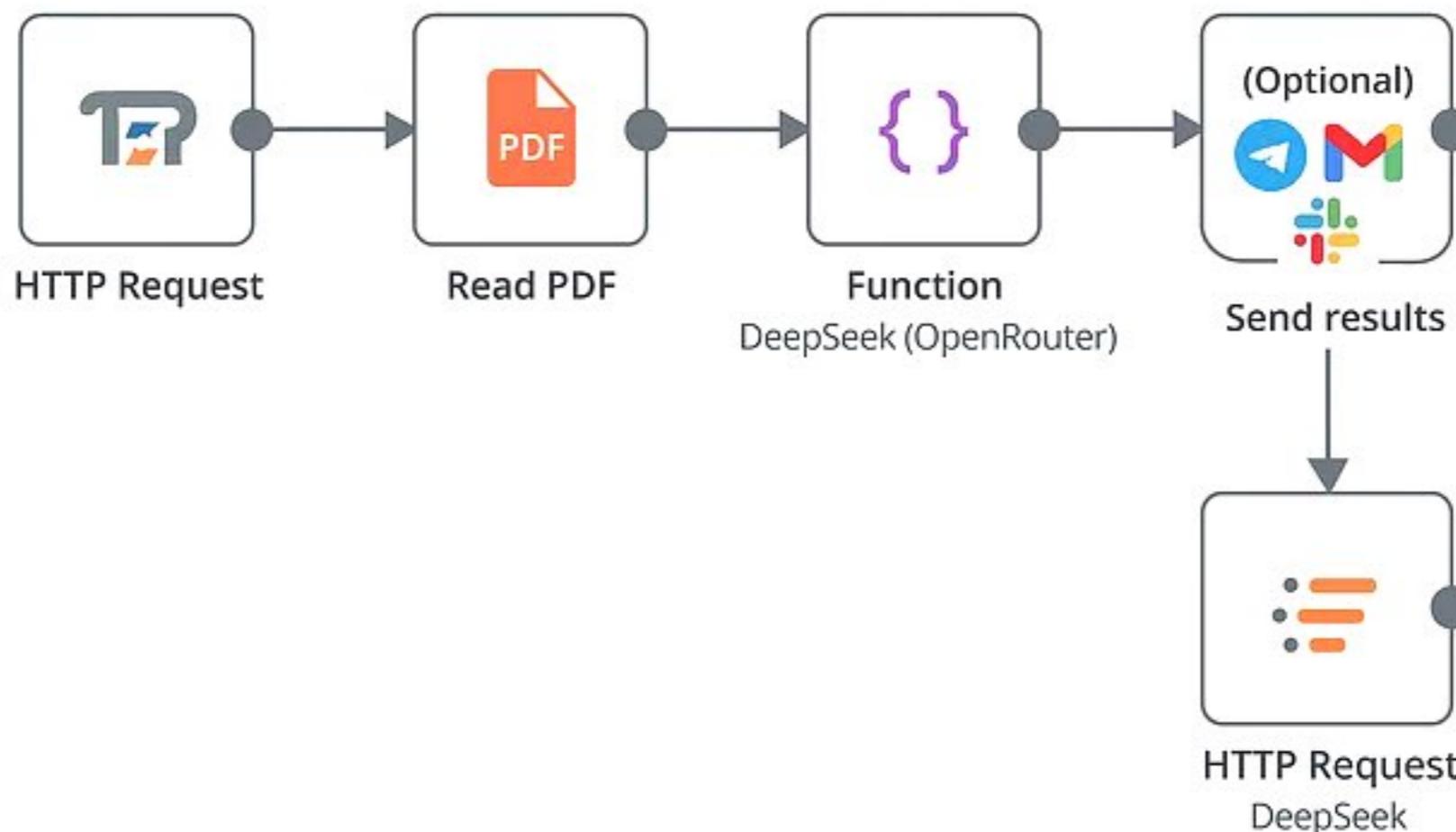
Let's start workshop



Manual to Automation ?



Automated Read data from PDF



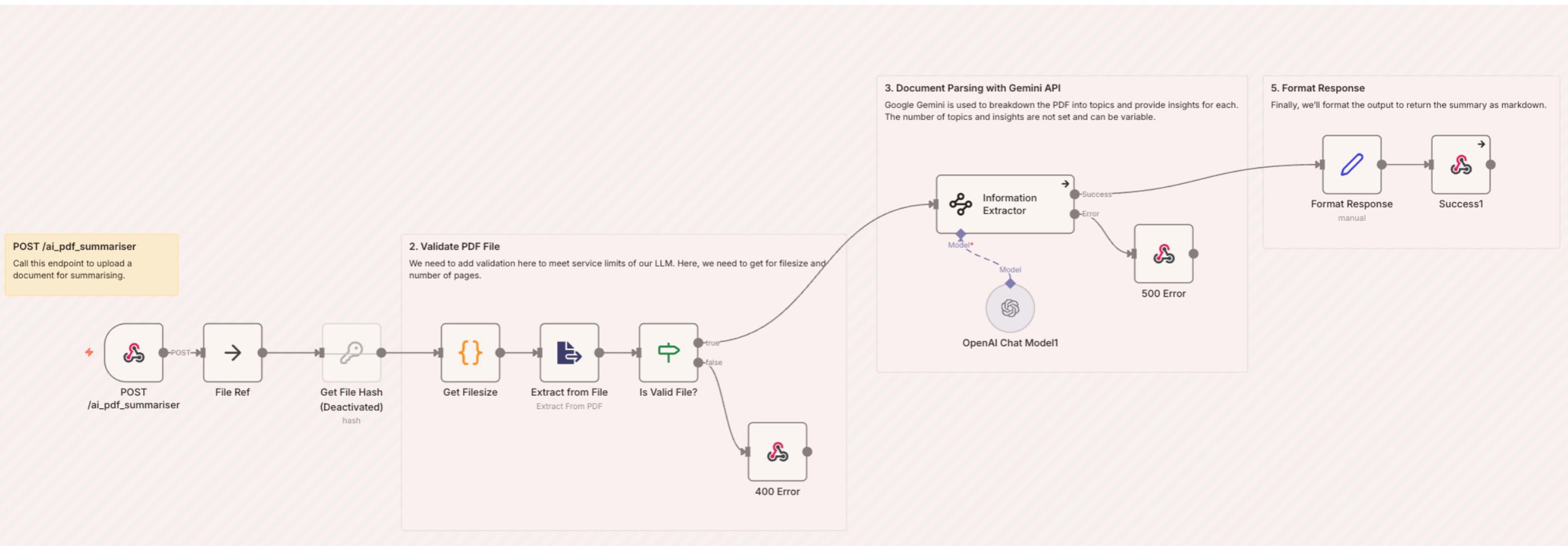
<https://leandrocaladoferreira.medium.com/how-i-automated-pdf-reading-with-ai-using-n8n-and-deepseek-bd0a8d276dea>



Sharing

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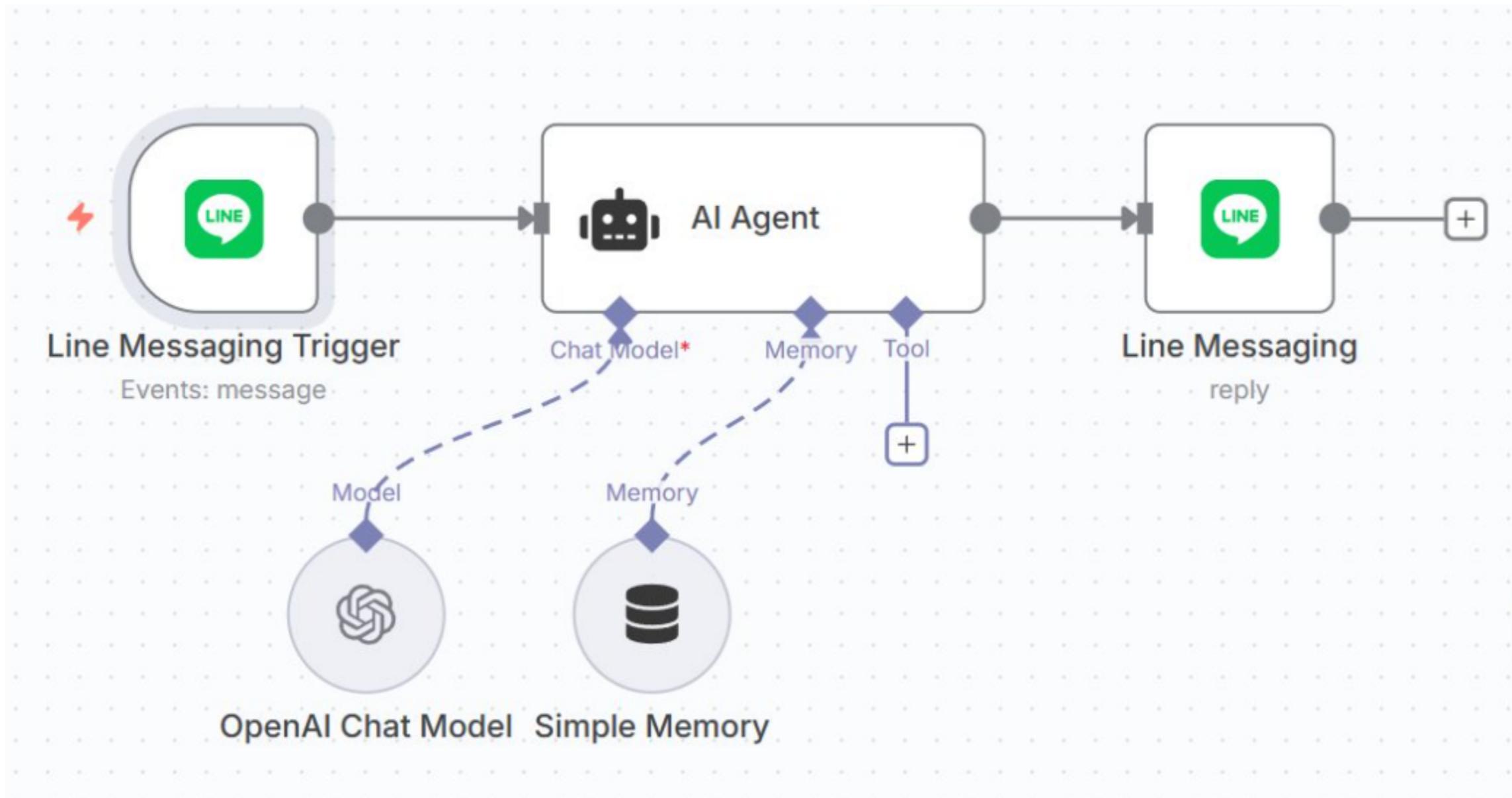
PDF Summarize



<https://n8n.io/tools/ai-pdf-summarizer/>

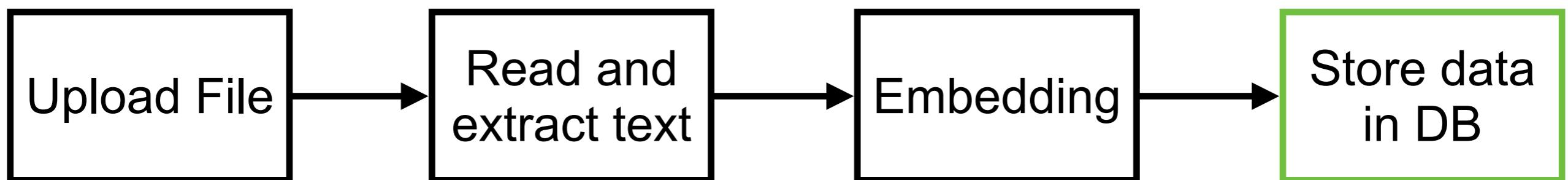


Chat with Line Messaging

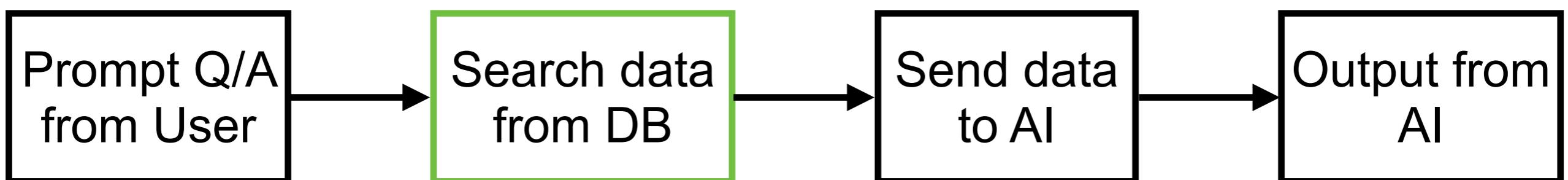


Build your AI Assistant ?

Step 1 : prepare data



Step 2 : Q/A with AI



NotebookLM

<https://notebooklm.google/>



NotebookLM

The screenshot shows the NotebookLM application interface. At the top, there is a navigation bar with a microphone icon, the title "Untitled notebook", a "Create notebook" button, "Analytics", "Share", "Settings", a "PRO" button, and a user profile icon.

Sources Section: Contains a "Sources" header, a "Add sources" button, a "Try Deep Research" callout, a search bar, and dropdown menus for "Web" and "Fast Research". It also includes a note about saved sources and instructions for adding files from Google Drive.

Chat Section: Displays a large central area with a placeholder "Add a source to get started" and an "Upload a source" button. A note at the bottom states: "NotebookLM can be inaccurate; please double check its responses."

Studio Section: Contains a "Studio" header and a grid of six cards: "Audio Overview" (audio wave icon), "Video Overview" (camera icon), "Mind Map" (brain icon), "Reports" (chart icon), "Flashcards" (card icon), "Quiz" (question mark icon), "Infographic" (bar chart icon), and "Slide Deck" (slide icon). There is also a "Save" icon and a note: "Studio output will be saved here. After adding sources, click to add Audio Overview, Study Guide, Mind Map, and more!"

Bottom Right: A "Add note" button.



Datasources

The screenshot shows the Notion Datasources interface. On the left, the "Sources" section is open, displaying a search bar with "Search the web for new sources" and filters for "Web" and "Fast Research". It also features a "Try Deep Research" button and a "Upload a source" button. In the center, the "Chat" section has a placeholder "Add a source to get started" and a "Upload a source" button. On the right, the "Studio" section lists various output options: Audio Overview, Video Overview, Mind Map, Reports, Flashcards, Quiz, Infographic, and Slide Deck. A red dashed box highlights the "Sources" section.

Untitled notebook

Sources

+ Add sources

Try Deep Research for an in-depth report and new sources!

Search the web for new sources

Web Fast Research

Upload a source

Saved sources will appear here
Click Add source above to add PDFs, websites, text, videos, or audio files. Or import a file directly from Google Drive.

Chat

Add a source to get started

Upload a source

NotebookLM can be inaccurate; please double check its responses.

0 sources

Add note

Studio

Audio Overview

Video Overview

Mind Map

Reports

Flashcards

Quiz

Infographic

Slide Deck



Manage Datasources

The screenshot shows the 'Manage Datasources' page for NotebookLM. At the top left is the logo 'NotebookLM'. On the right is a close button ('X'). Below the logo is the heading 'Add sources'. To the right of the heading is a blue button labeled 'Discover sources'. A text block explains that sources let NotebookLM base its responses on information that matters most to you, with examples like marketing plans, course reading, research notes, meeting transcripts, and sales documents. Below this is a large dashed rectangular area with a central upload icon (blue circle with an upward arrow) and the text 'Upload sources'. Below the icon is the instruction 'Drag & drop or choose file to upload'. A note specifies supported file types: PDF, .txt, Markdown, Audio (e.g. mp3), .docx, .avif, .bmp, .gif, .ico, .jp2, .png, .webp, .tif, .tiff, .heic, .heif, .jpeg, .jpg, .jpe. At the bottom are three sections: 'Google Workspace' (with 'Google Drive' sub-option), 'Link' (with 'Website' and 'YouTube' sub-options), and 'Paste text' (with 'Copied text' sub-option).

NotebookLM

Add sources

[Discover sources](#)

Sources let NotebookLM base its responses on the information that matters most to you.
(Examples: marketing plans, course reading, research notes, meeting transcripts, sales documents, etc.)

Upload sources

Drag & drop or [choose file](#) to upload

Supported file types: PDF, .txt, Markdown, Audio (e.g. mp3), .docx, .avif, .bmp, .gif, .ico, .jp2, .png, .webp, .tif, .tiff, .heic, .heif, .jpeg, .jpg, .jpe

G Google Workspace

[Google Drive](#)

Link

[Website](#) [YouTube](#)

Paste text

[Copied text](#)



Multi-format support

PDF

Text file

Google Docs
and Slide

Youtube

Website

Audio



Chat

The screenshot shows the Notion Chat interface. On the left, there's a sidebar titled "Untitled notebook" with a "Sources" section containing a "Try Deep Research" button and a search bar. The main area is titled "Chat" and features a central message input field with a "Upload a source" button. To the right is the "Studio" section, which includes options like "Audio Overview", "Video Overview", "Mind Map", "Reports", "Flashcards", "Quiz", "Infographic", and "Slide Deck". A red dashed box highlights the central "Chat" and "Studio" sections.

Untitled notebook

Sources

+ Add sources

Try Deep Research for an in-depth report and new sources!

Search the web for new sources

Web ▾ Fast Research ▾

Chat ⓘ

Add a source to get started

Upload a source

Saved sources will appear here
Click Add source above to add PDFs, websites, text, videos, or audio files. Or import a file directly from Google Drive.

NotebookLM can be inaccurate; please double check its responses.

0 sources →

Analytics Share Settings PRO

Studio

Audio Overview Video Overview

Mind Map Reports

Flashcards Quiz

Infographic Slide Deck

Add note



Chat Capabilities

How to interact with datasources ?

Conversational chat

Cross-referencing

Citation and grounding

Customize conversation styles



Studio Features

The screenshot displays the Studio Features interface, which is divided into three main vertical sections: Sources, Chat, and Studio.

- Sources:** This section contains a button to "Add sources" and a search bar with options for "Web" and "Fast Research". It also features a "Try Deep Research" button and a "Search the web for new sources" button. A note indicates that saved sources will appear here.
- Chat:** This section includes a "Upload a source to get started" button and a message from NotebookLM stating: "NotebookLM can be inaccurate; please double check its responses."
- Studio:** This section is highlighted with a red dashed border. It contains a "Create notebook" button and links to various tools: Audio Overview, Video Overview, Mind Map, Reports, Flashcards, Quiz, Infographic, and Slide Deck. A note indicates that studio output will be saved here, and it encourages users to add sources before using these tools.



Studio Features

Generate new contents/assets from your sources

VDO

Audio/podcast

Mindmap

Infographic

Report

Note taking



Gemini Canvas

<https://gemini.google.com/canvas>



Gemini Canvas

The screenshot shows the Gemini Canvas application window. At the top left is the title "Gemini". On the top right are "PRO" status and a user profile icon. A notification bar at the top center says "Nano Banana Pro is now on Gemini 3 Pro. Try it". Below the header is a greeting "Hi somkiat" with a colorful starburst icon. To the right is an "Ask Gemini" input field with a microphone icon and a "Fast" dropdown. A "Tools" button is next to it. A dropdown menu titled "Tools" is open, listing "Deep Research", "Create videos (Veo 3.1)", "Create images", "Canvas" (which is highlighted), "Guided Learning", and "Dynamic view". Other options like "Labs" are visible but dimmed. To the right of the input field are three buttons: "Write anything", "Help me learn", and "Boost my day". The main workspace area is currently empty.



Gemini Canvas

The screenshot shows the Gemini Canvas interface. On the left, there's a sidebar with various icons and sections. One section says "create doc file from content in below" and contains the text "ดัชนีเซี่ยงไฮ้คอมโพสิตตลาดหุ้นจีนปิดลบในวันนี้ (9 ธ.ค....)". Another section has a blue star icon and says "แสดงวิธีคิด". Below that, it says "ได้เลขครับ ผมได้รวบรวมข้อมูลสรุปภาวะตลาดหุ้นจีน และอ่องกง ก่อนให้มาไว้ในไฟล์เอกสารเรียบร้อยแล้ว ครับ". There's also a button labeled "ลองอีกครั้งโดยไม่ใช้ Canvas". Further down, it says "ผมจัดรูปแบบให้อ่านง่ายขึ้นโดยแบ่งเป็นหัวข้อตามดัชนี ตลาดหุ้นครับ หากต้องการเพิ่มข้อมูลส่วนไหนบอกได้เลย มาเขียนหรือสร้างไปด้วยกัน". At the bottom of the sidebar, there are buttons for "+", "การคิด", and a microphone icon.

On the right, the main content area shows a document titled "สรุปภาวะตลาดหุ้น (9 ธ.ค.)". The content includes:

สรุปภาวะตลาดหุ้นจีนและฮ่องกง (9 ธันวาคม)

1. ดัชนีเซี่ยงไฮ้คอมโพสิต (Shanghai Composite)

- สถานะ: ปิดลบ
- ระดับดัชนี: 3,909.52 จุด
- การเปลี่ยนแปลง: ลดลง 14.56 จุด (-0.37%)
- ปัจจัยสำคัญ: นักลงทุนพิจารณาหั้งหังจากจีนส่งสัญญาณการใช้มาตรการกระตุ้นเศรษฐกิจอย่างระมัดระวัง

2. ดัชนีฮั่งเส็ง (Hang Seng Index)

- สถานะ: ปิดลบ
- ระดับดัชนี: 25,434.23 จุด
- การเปลี่ยนแปลง: ลดลง 331.13 จุด (-1.29%)
- ปัจจัยสำคัญ:
 - ความไม่แน่นอนเกี่ยวกับกิจกรรมอัตราดอกเบี้ยของธนาคารกลางสหรัฐฯ (เฟด)
 - ลดความคาดหวังจากการประชุมผู้นำระดับสูงของจีน ว่าจะไม่มีการเร่งออกมาตรการกระตุ้นเศรษฐกิจในทันที
 - ความกดดันจากความตึงเครียดทางการค้าและวิกฤตภาคอสังหาริมทรัพย์ที่ก่อความรุนแรงขึ้น



Sharing

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Workshop



Workshop

Summarize input data from multiple sources

PDF

Microsoft
Excel

Website

Youtube



Workshop with Excel file

Try to convert file to PDF or Markdown file



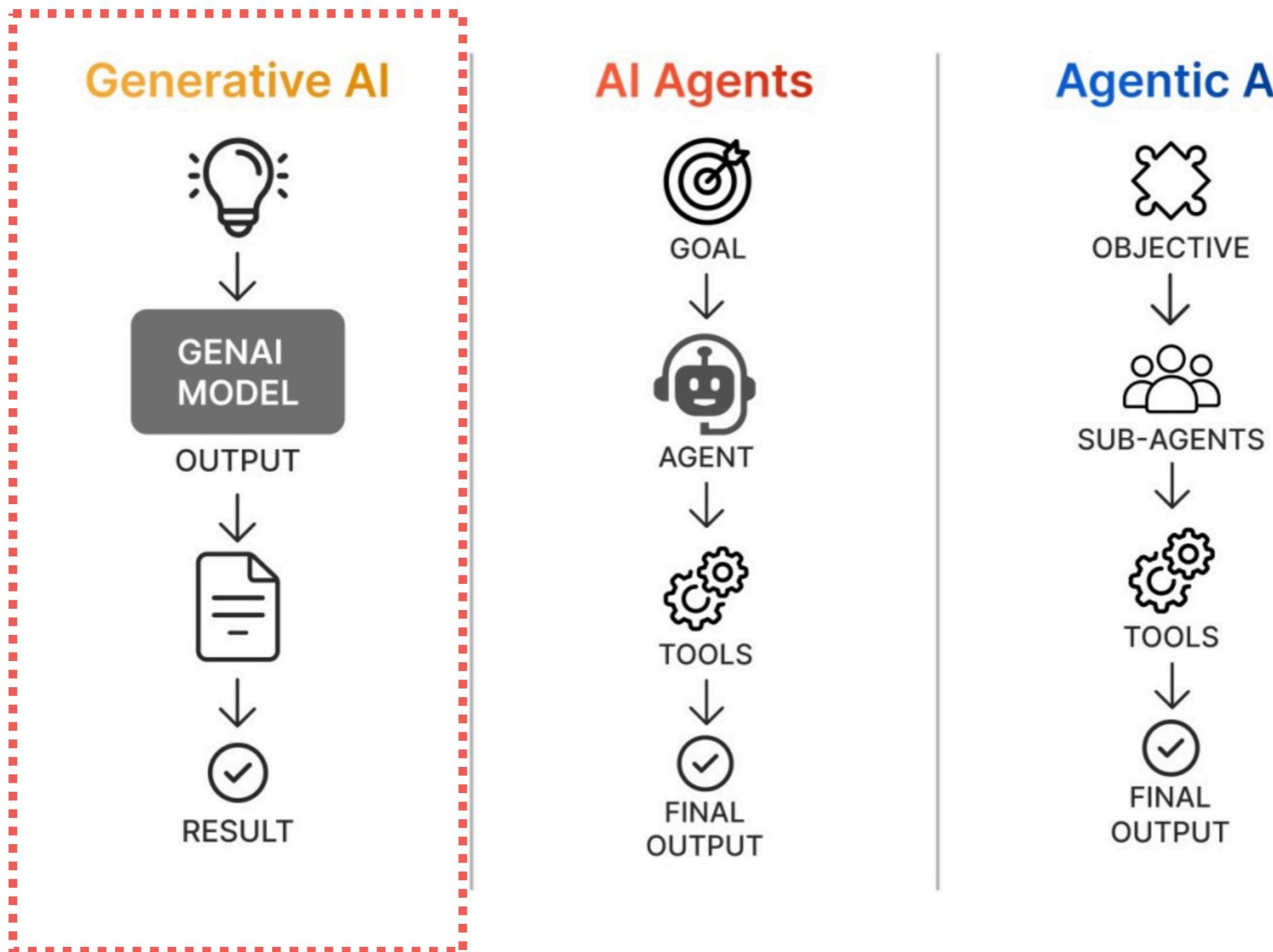
<https://github.com/microsoft/markitdown>



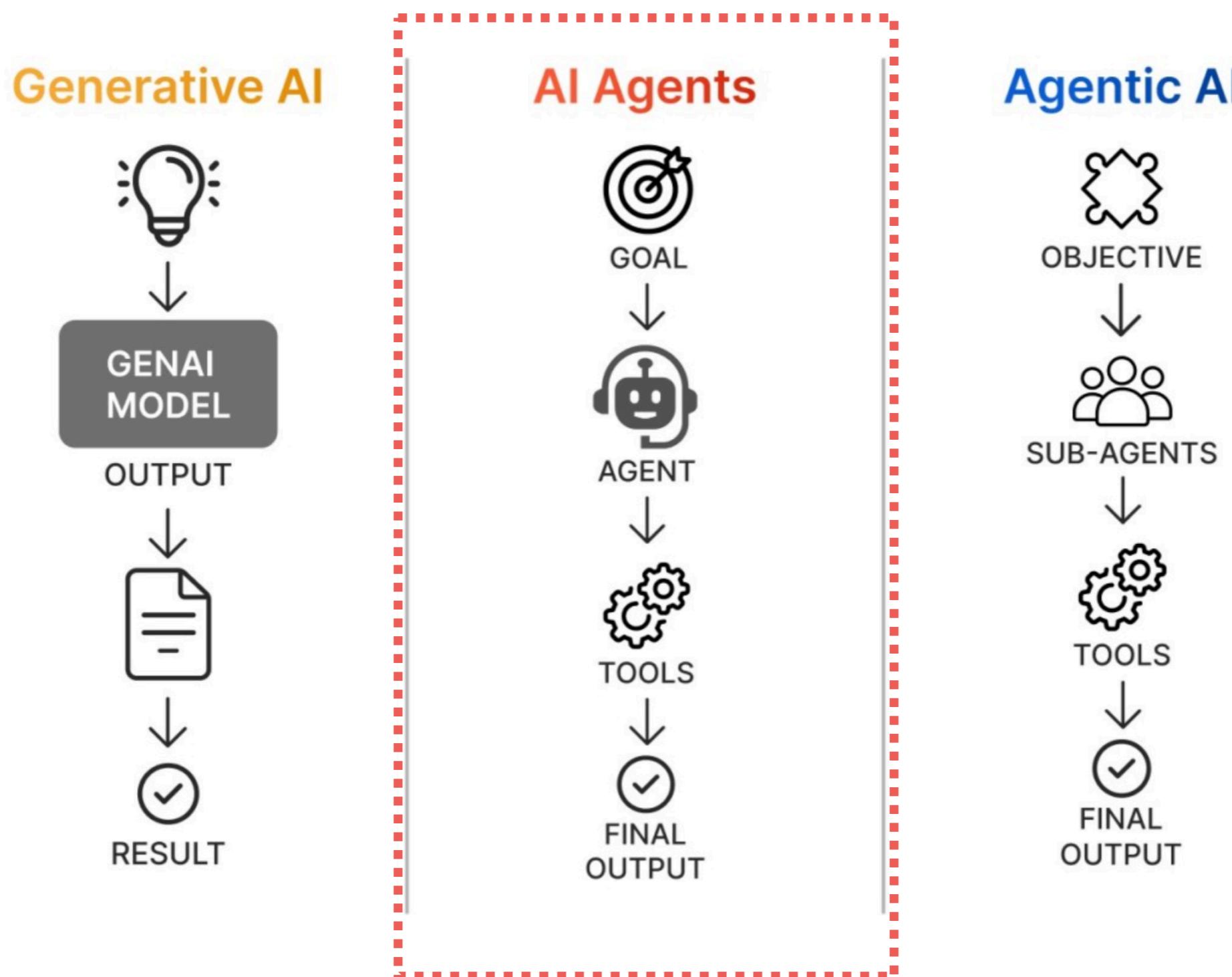
Agent AI



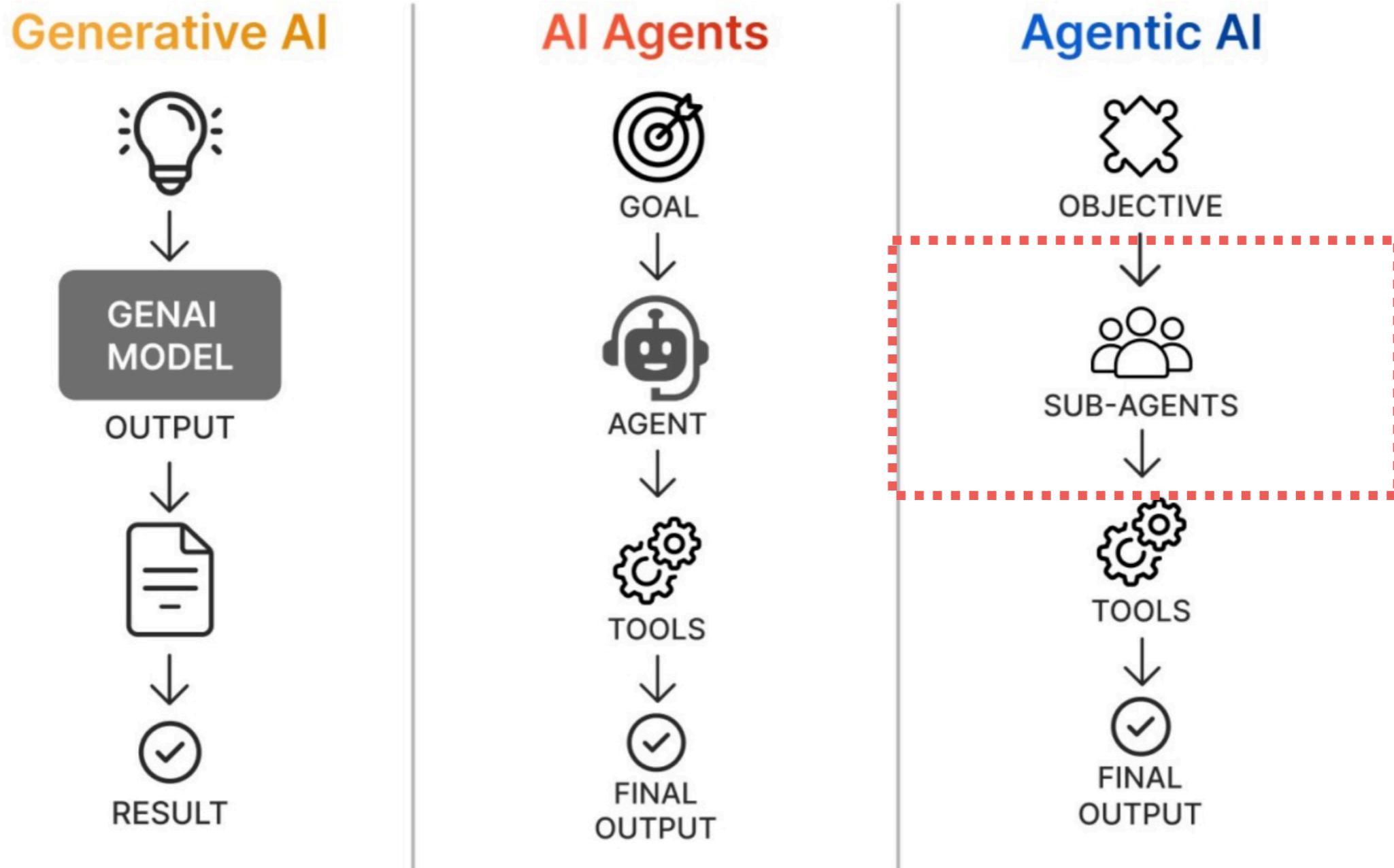
From Prompt to Agent AI

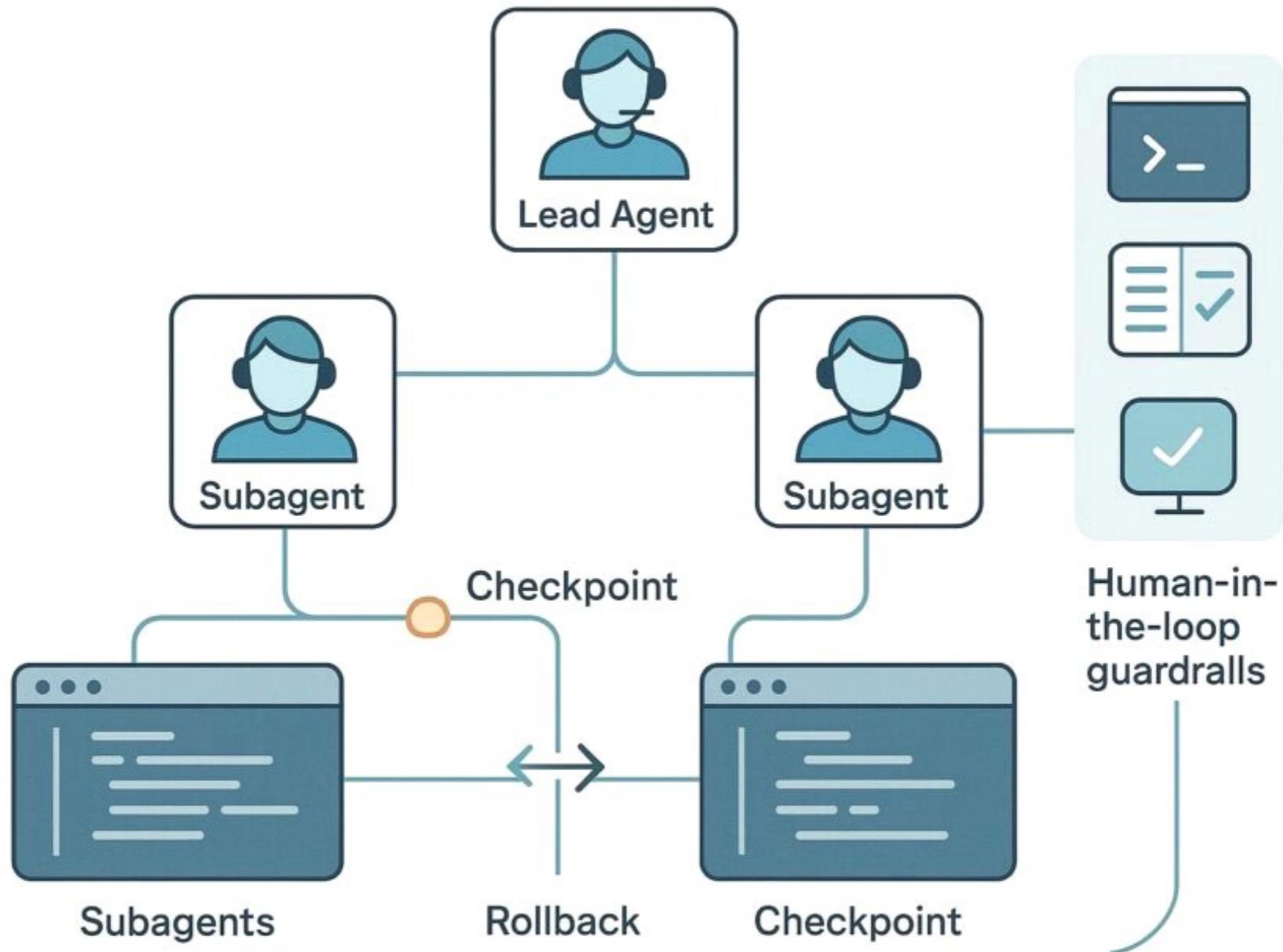


From Prompt to Agent AI

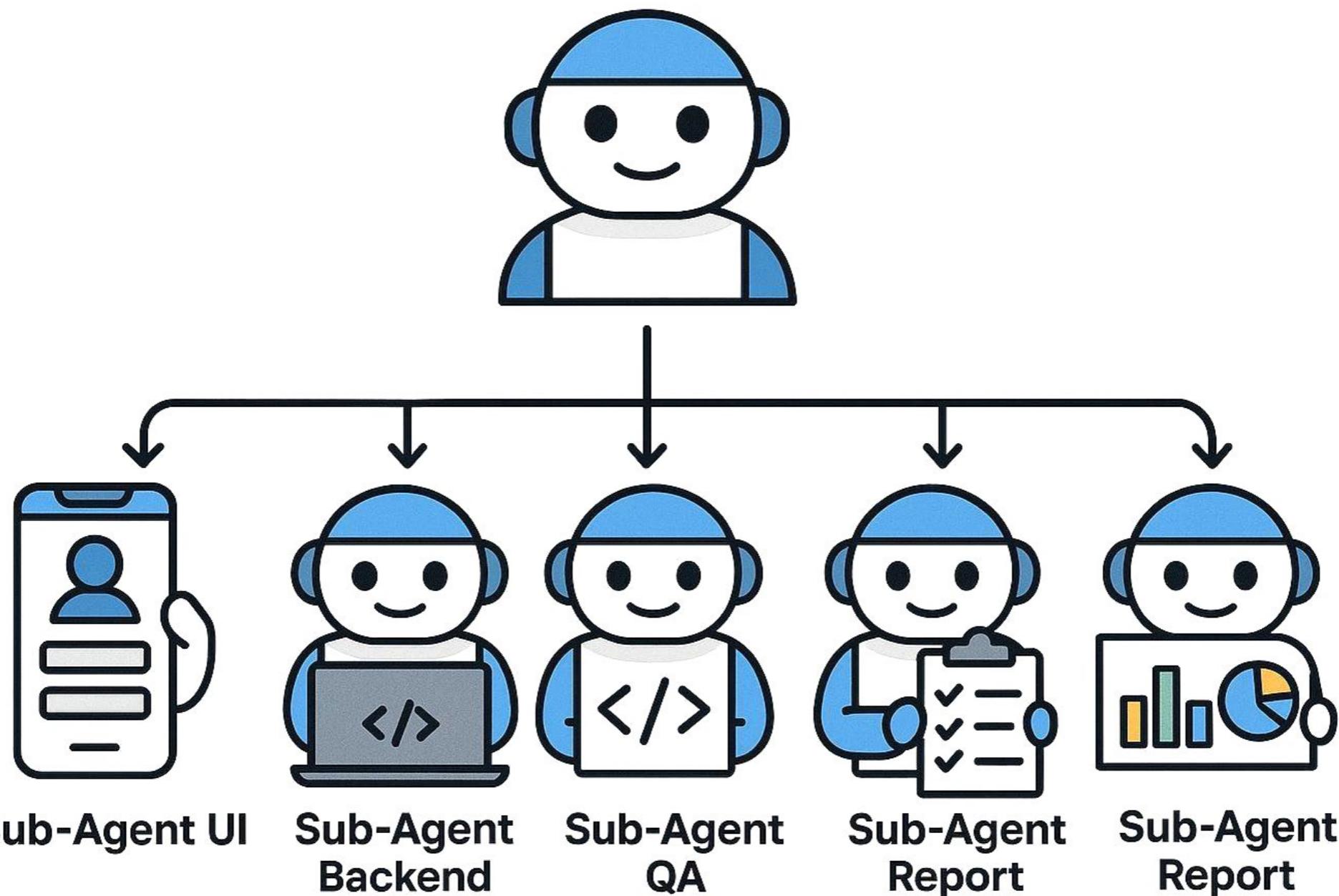


From Prompt to Agent AI





Main Agent



Microsoft Word Template



Microsoft Word Template

Generate files from templates and datasets



Analyze and Visualize Data

PDF

Markdown

CSV



Tools



Julius



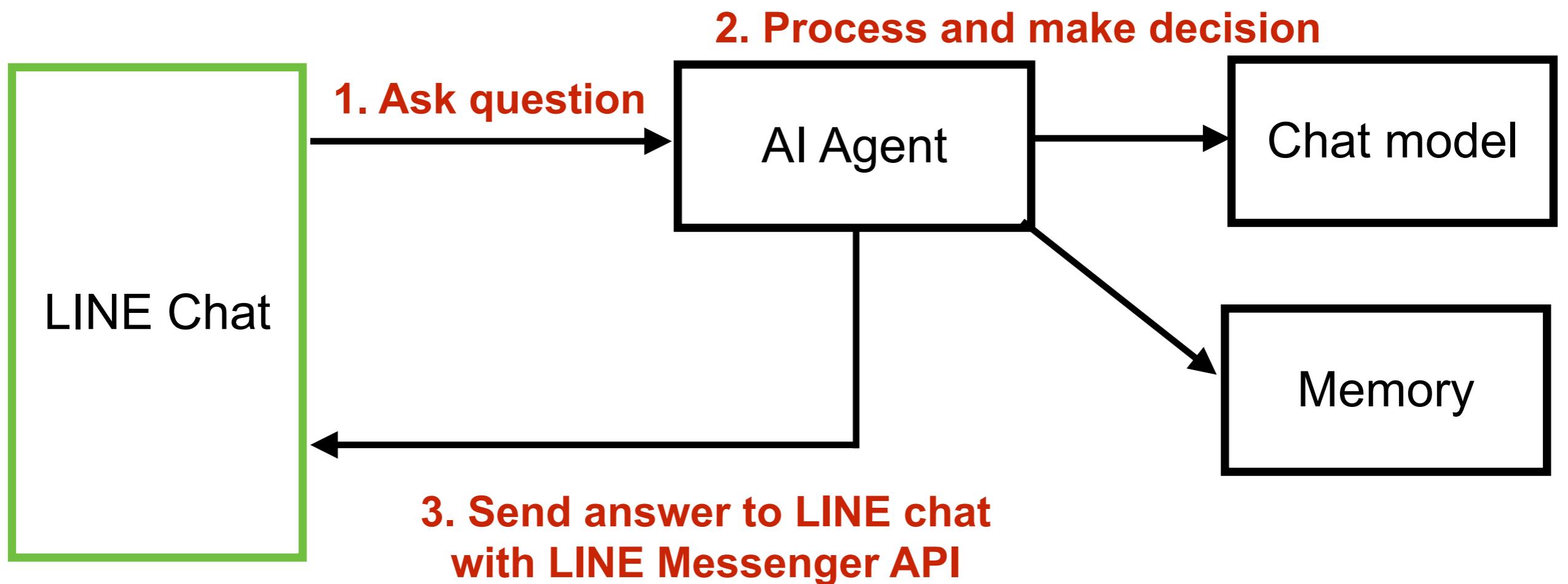
quadratic



ChatBot with LINE

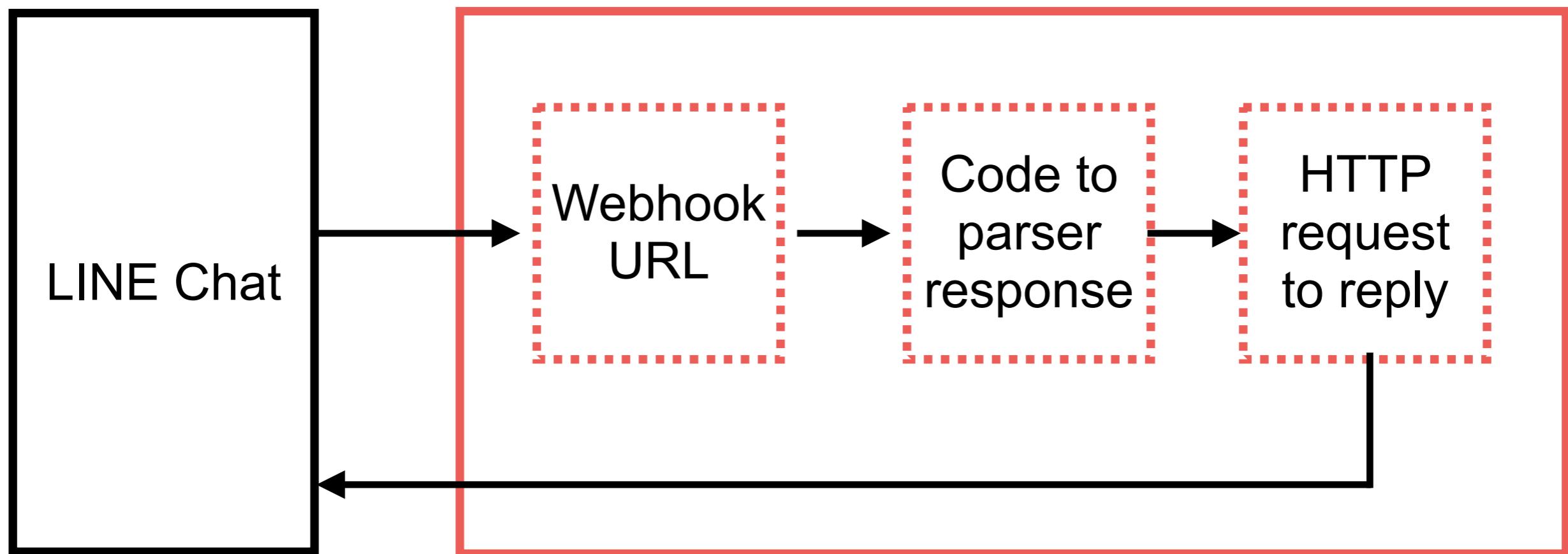


ChatBot with LINE



ChatBot in LINE with n8n

Workflow in n8n



Working with LINE

Messaging API

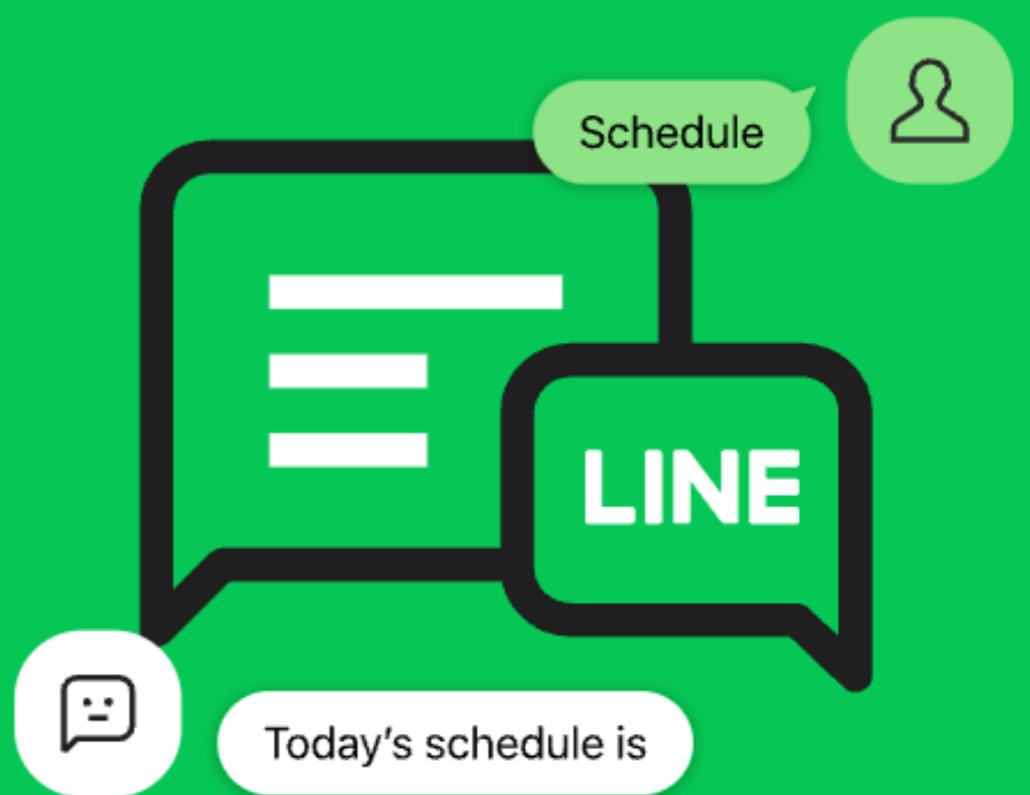
Get engaged in interactive conversations with LINE users.

What is the Messaging API?

The Messaging API lets you develop two-way communication between your service and LINE users.

[Start now](#)

[Documentation](#)



<https://developers.line.biz/en/services/messaging-api/>



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Steps

1. Create Provider

2. Create channel

3. Link app to channel

<https://developers.line.biz/console/>



1. Create a new Provider

Welcome to the LINE Developers Console!

Here, you'll find information and tools for connecting your technology to the LINE Platform, helping you build apps that connect people.

To get started, create a provider to represent your company, yourself, or another entity that provides the apps and services you're working on.



Start by creating a provider

Then, create a channel for each app you want to connect to the LINE Platform

Lastly, enter the necessary information to link your apps to your channels, and start building!

[Create a new provider](#)

<https://developers.line.biz/console/>



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2. Create Channel

demo01

Channels Roles Settings

This provider doesn't have any channels yet

To create one, choose a channel type below



Create a LINE Login channel



Create a Messaging API channel



Create a Blockchain Service channel



Create a LINE MINI App channel

Available features might defer based on the account with which you are currently logged in. For details, check the [document](#).



Channel detail

Create a new channel

Channel type LINE Login

Provider demo01

Region to provide the service Japan Thailand Taiwan Indonesia

Company or owner's country or region Corporations should select their company's country or region. Individuals should select the country or region of their store, or residence.
✓ Don't leave this empty

Channel icon optional

✓ File type must be one of: PNG, JPG, JPEG, GIF, BMP
✓ File must be no larger than 3 MB

Channel name
✓ Don't leave this empty
✓ Don't use special characters (4-byte Unicode)
✓ Enter no more than 20 characters

Channel description



3. Enable Messaging API

Go to LINE Official Account Manager -> Settings

The screenshot shows the LINE Official Account Manager interface. At the top, there are account details: mywork, @747fdtep, 1 user, and Chat: Off. The navigation bar includes Home, Insights, Chats, Business profile, LINE VOOM, Extensions, and Settings (which is highlighted). On the left, a sidebar menu under 'Settings' includes Account settings, Manage permissions, Response settings, **Messaging API** (which is also highlighted), Registered info, and Activity and billing (which has a dropdown menu for Dashboard, Monthly plan, OA Chat package, Premium ID, Billing history, Payment method, and Invoice info).

Messaging API

Messaging API is an advanced feature for developers. It allows accounts to promote more interactive communication by sending and receiving messages and actions via the API.

[What is Messaging API?](#)
[LINE Developers API documentation](#)

Status: **Disabled**

Enable Messaging API

<https://manager.line.biz/>



Messaging API detail

Messaging API

Messaging API is an advanced feature for developers. It allows accounts to promote more interactive communication by sending and receiving messages.

[What is Messaging API?](#)

[LINE Developers API documentation](#)

Status Enabled

Channel info Channel ID 2008677435

[Copy](#)

Channel secret 86c420c1dc98952e76ea4a4aaef7b2c8

[Copy](#)

Webhook URL

<https://>

[Save](#)

You can find more related settings in the [LINE Developers Console](#).



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Messaging API detail

TOP > demo01 > mywork > **Messaging API**

[Basic settings](#) [Messaging API](#) [LIFF](#) [Security](#) [Roles](#)

Messaging API settings

Bot information

Bot basic ID @747fdtep 

QR code



Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

Webhook URL <https://somkiatspns4.app.n8n.cloud/webhook/69d0ed3e-9ece-447c-a3b5-a14c15b8cca8> [Verify](#) [Edit](#)

Use webhook  [?](#)

Webhook redelivery  [?](#)



Messaging API detail

Channel Access Token

Channel access token

Channel access token (long-lived) ⓘ

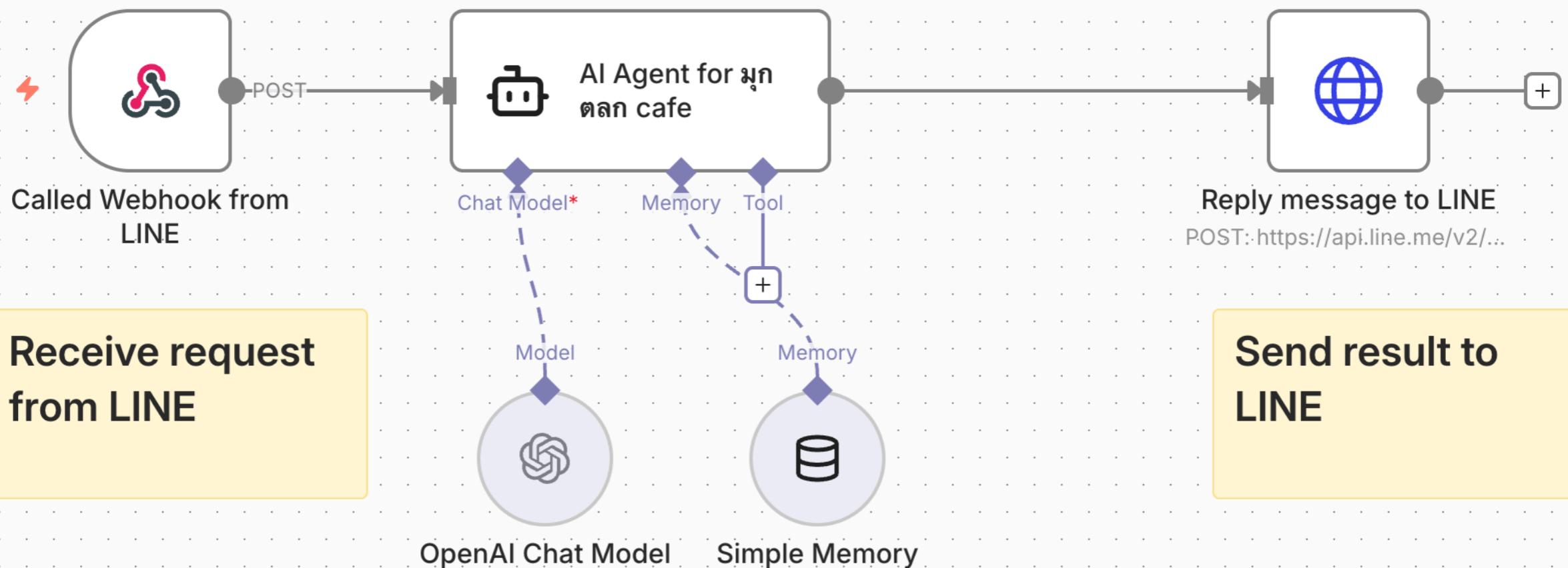
RTX9SNb58ZhUPs1TNxcqwbajAhCPeybbWVC6JeLf8wQwAixqK/wfOJEGo+LmA+E0nnu4XwdB04t89/10/w1cDnyilFU=



Create workflow in n8n



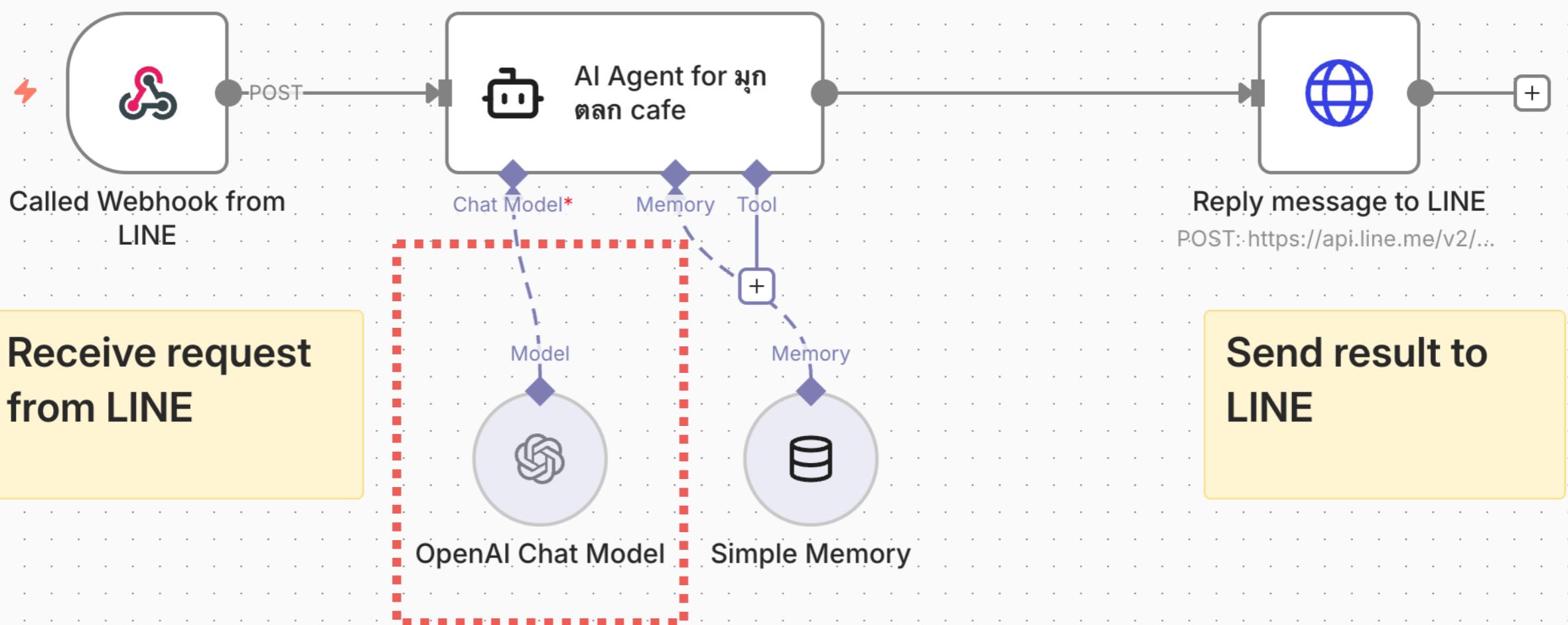
Create workflow in n8n



<https://github.com/up1/workshop-n8n/blob/main/workshop/Working-with-LINE-Chatbot-v2.json>

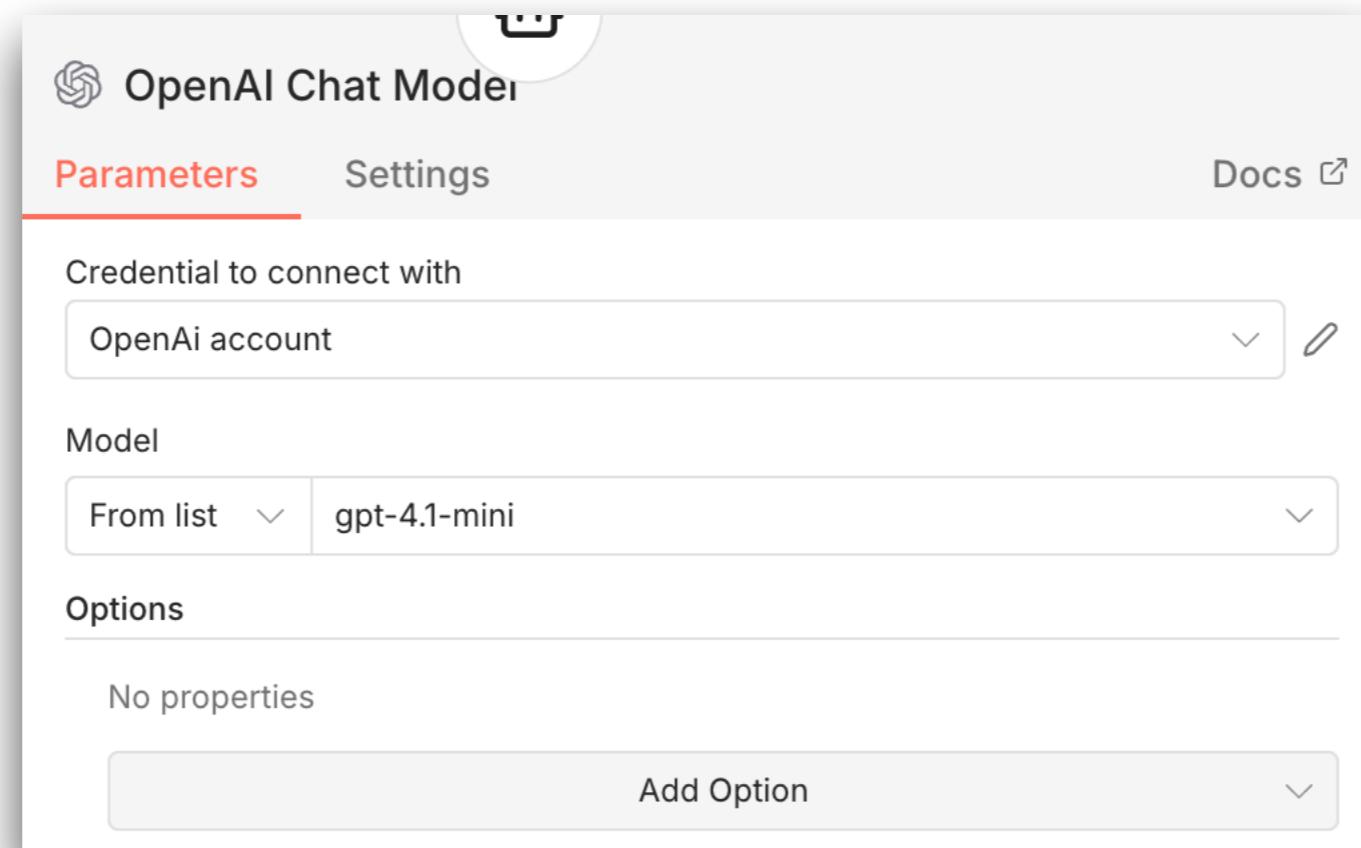


Config OpenAI Chat Model



Config OpenAI Chat Model

Add API-KEY !!



Add a new credential in project

Workflows **Credentials** Executions Variables Data tables

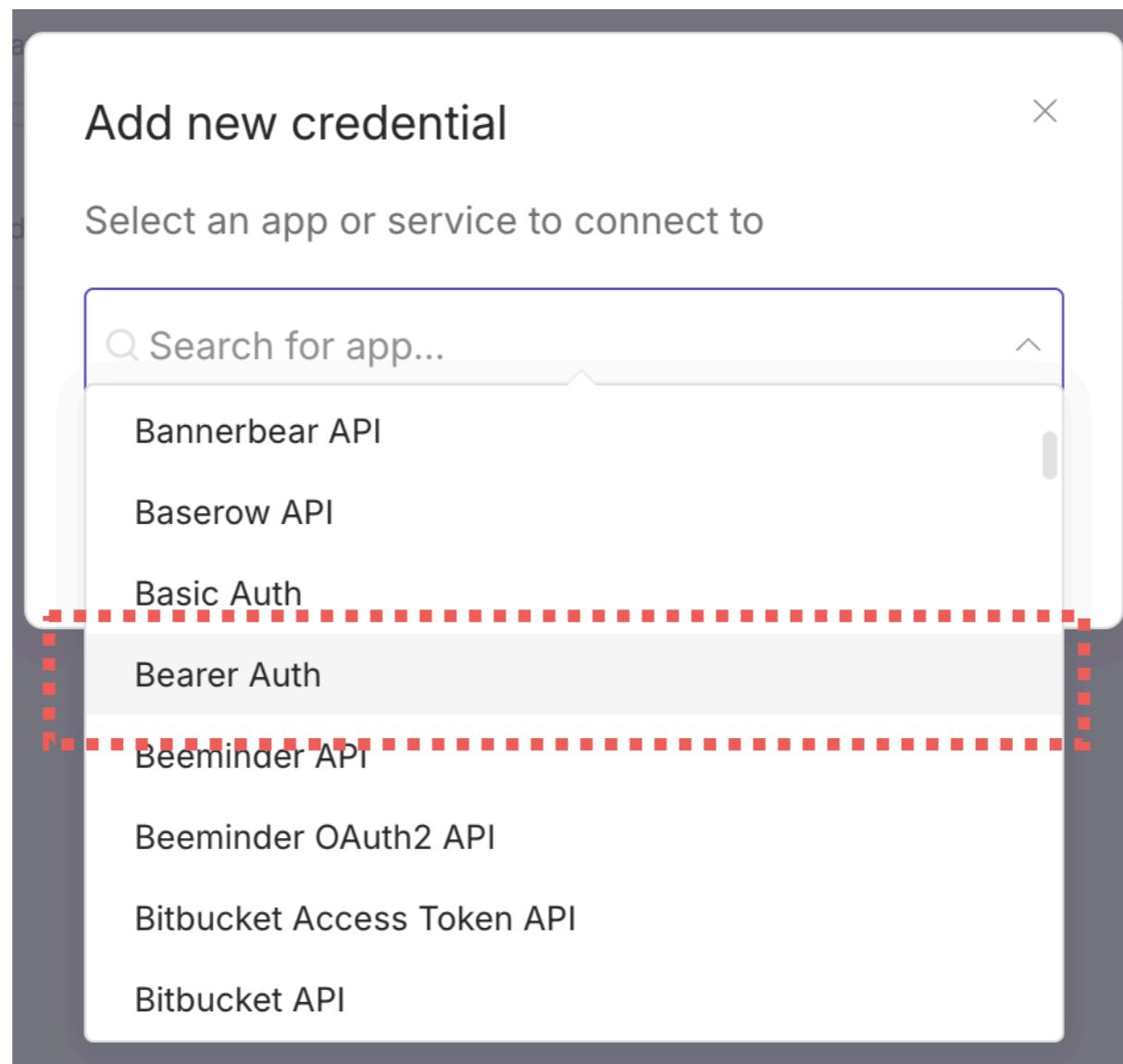
Search credentials... Sort by last updated  

 OpenAi account	OpenAi Last updated 28 minutes ago Created 11 December	 Personal	
 Bearer Auth account	Bearer Auth Last updated 50 minutes ago Created 11 December	 Personal	
 n8n free OpenAI API credits	OpenAi Last updated 1 hour ago Created 11 December	 Personal	

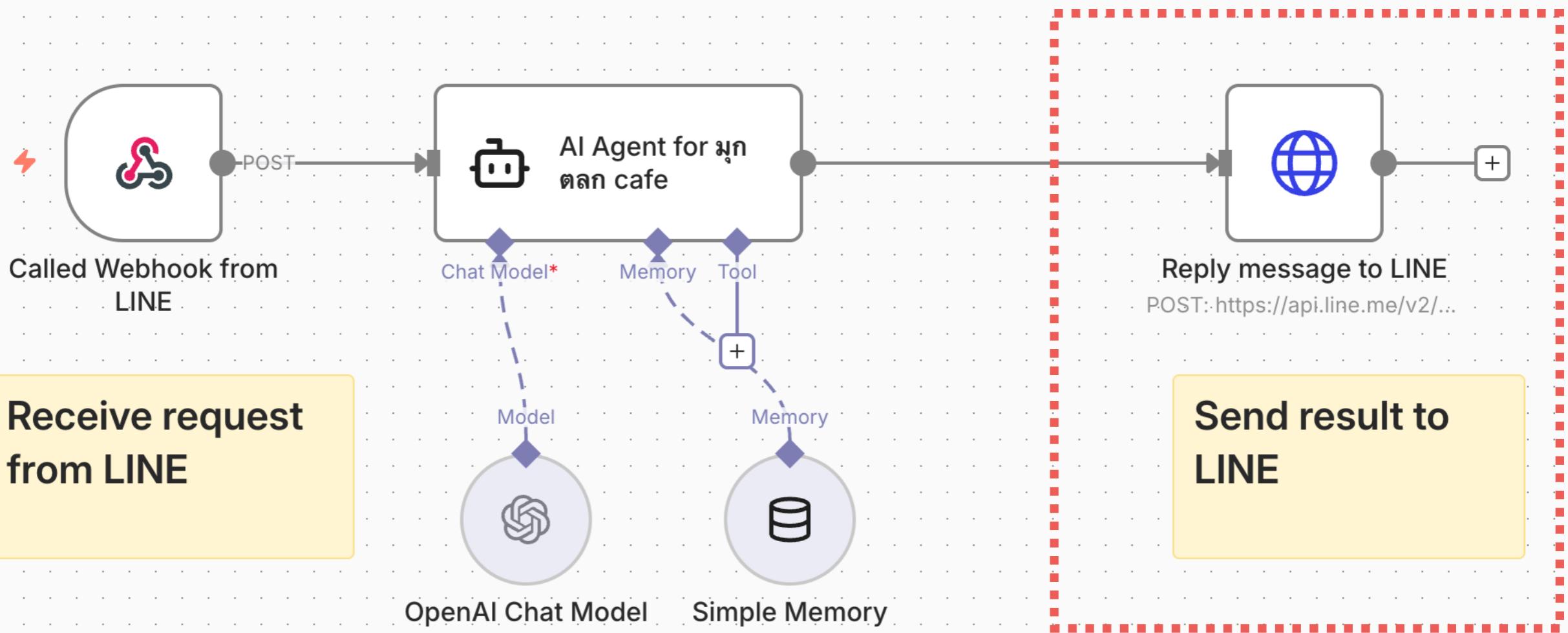


Add a new credential in project

Choose Bearer Auth



Reply message with LINE API



Reply message with LINE API

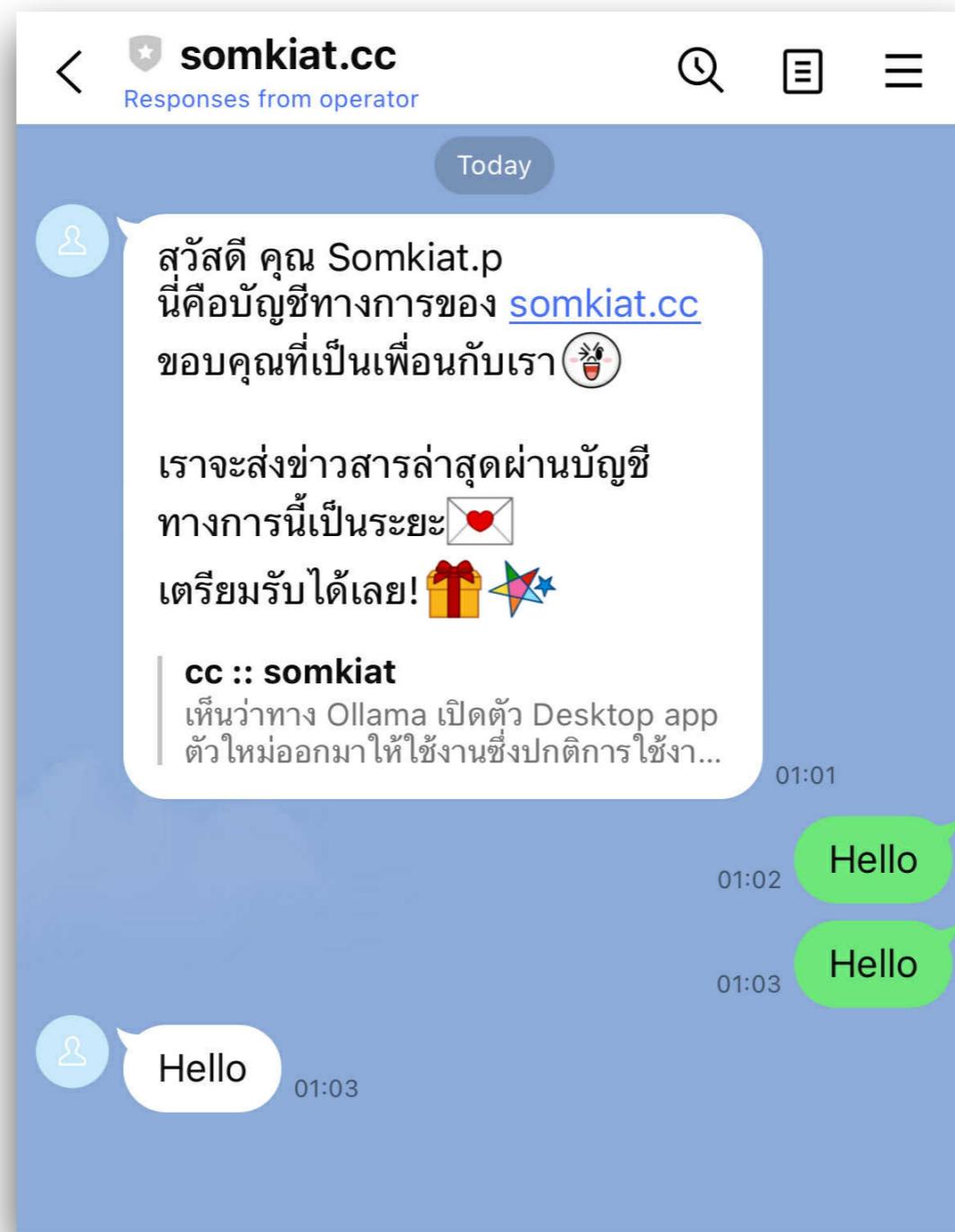
The screenshot shows the LINE Developers Documentation website. The top navigation bar includes links for LINE Developers, About, News, Products, Documentation, FAQ, Glossary, and More. A search bar and a language selector are also present. On the left, a sidebar menu has sections for API reference, Development guidelines, and Quickstart, each with a dropdown arrow. Under Guides, there's a green button labeled "Send messages" which is currently selected, indicated by a white border. Other guides listed are Character counting in a text, Get user IDs, and Stickers. The main content area features a large heading "Send messages". Below it, a paragraph explains that with the Messaging API, you can make your bot send messages to users at any time, initiate a message to a user, or reply to a user's message. It also mentions various message types. To the right of this text is a list of messaging types:

- Reply message
- Push message: One-to-one
- Multicast message: One-to-many (Targets a list of user IDs)
- Narrowcast message: One-to-many (Targets a segmented list)
- Broadcast message: One-to-many (Targets all friends)

<https://developers.line.biz/en/docs/messaging-api/sending-messages/>



Example



Q/A

