



AI for Technical Team





Page

Messages

Notifications 3

Insights

Publishing Tools

Settings

Help ▾



somkiat.cc

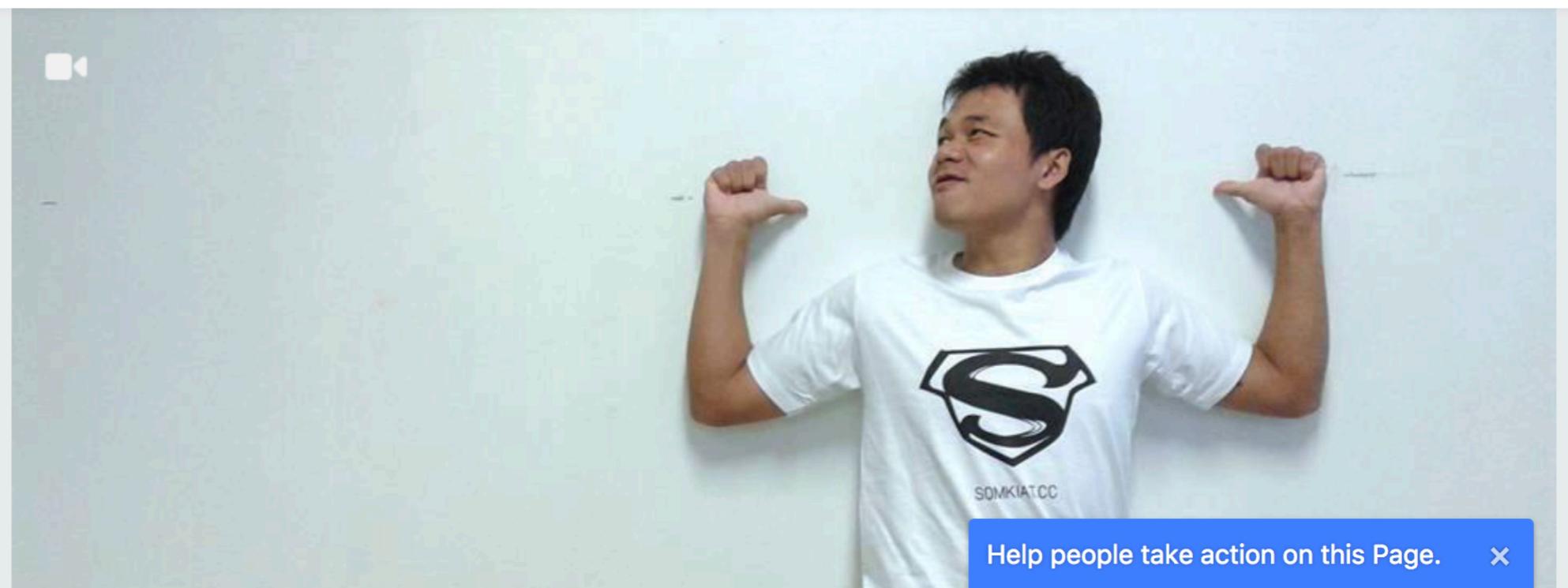
@somkiat.cc

Home

Posts

Videos

Photos



Help people take action on this Page. 

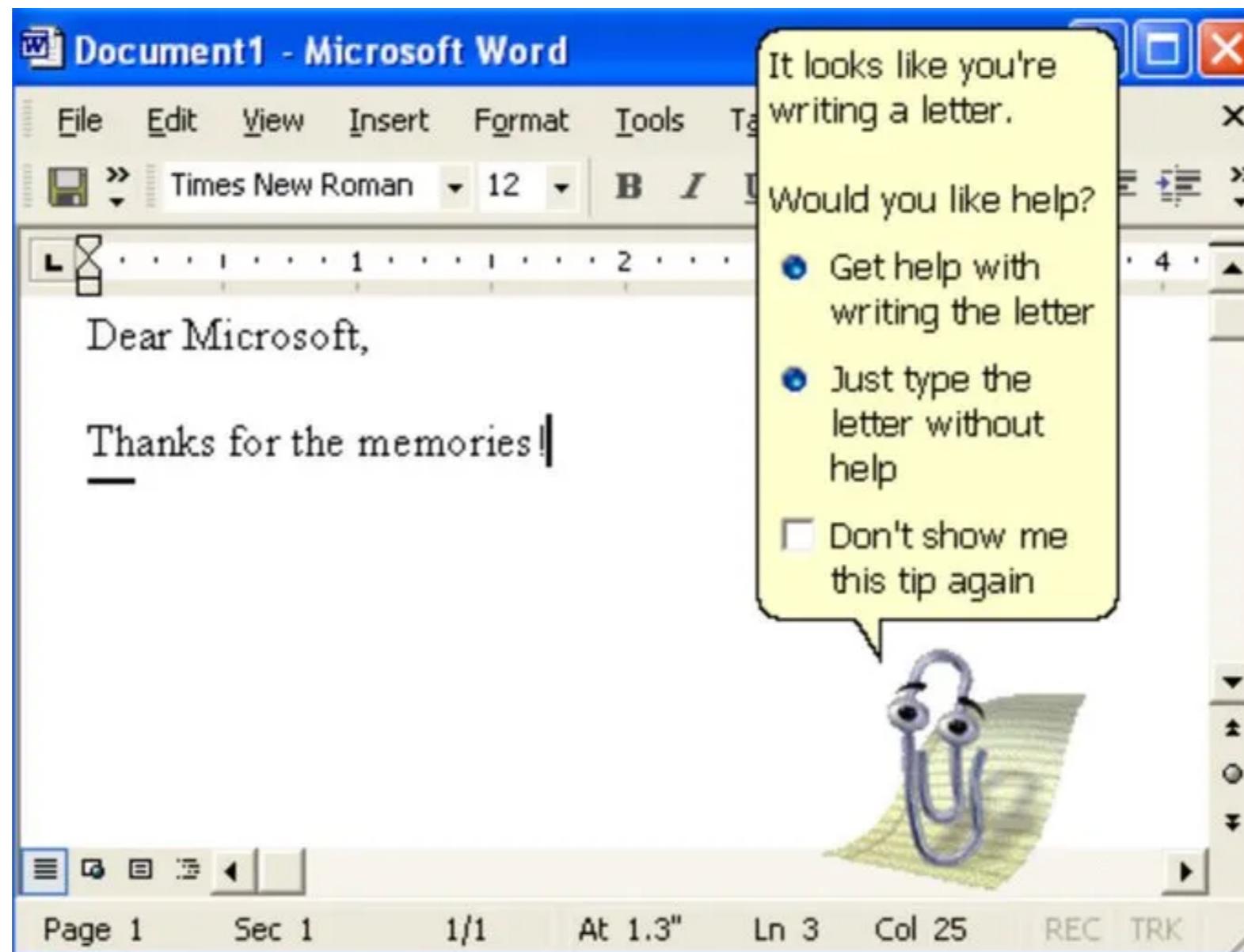
+ Add a Button



Sharing

3

Generative AI (GenAI)



Generative AI (GenAI)

Days before OpenAI



Days after OpenAI



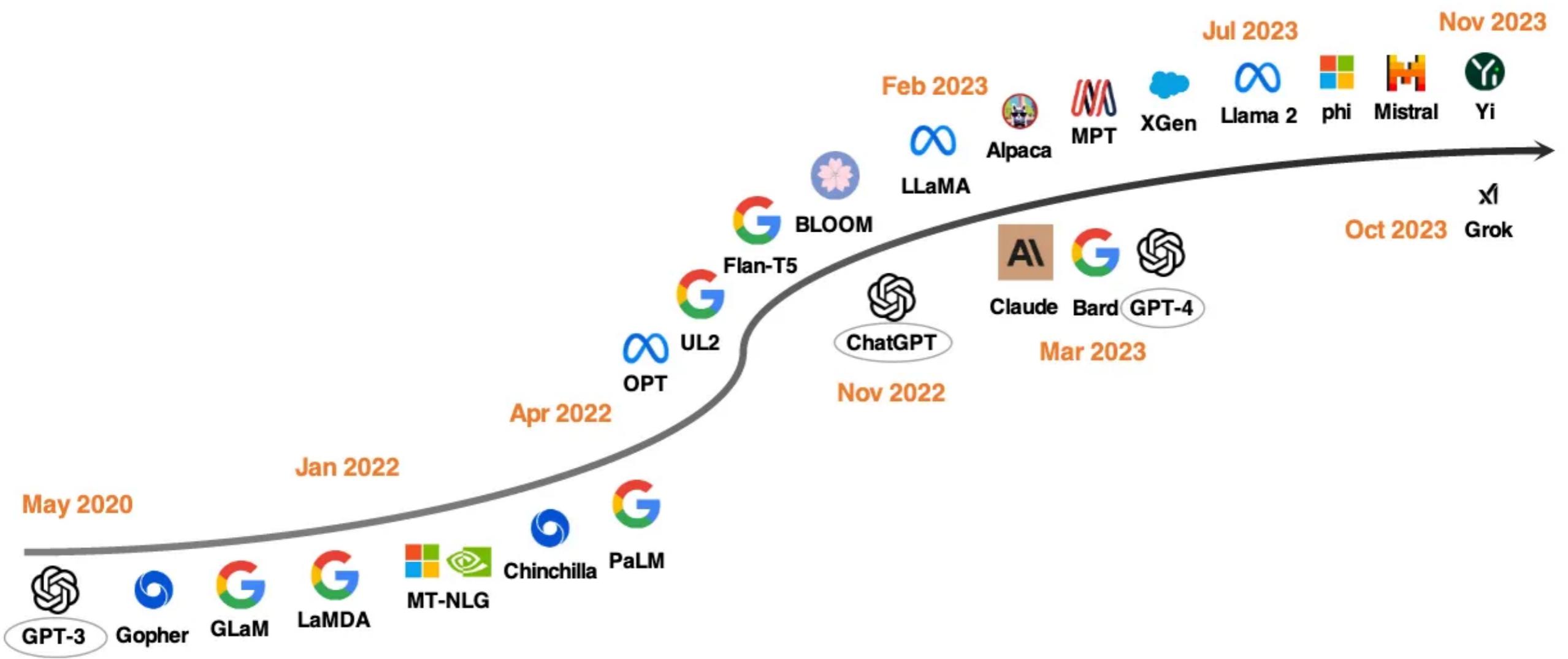
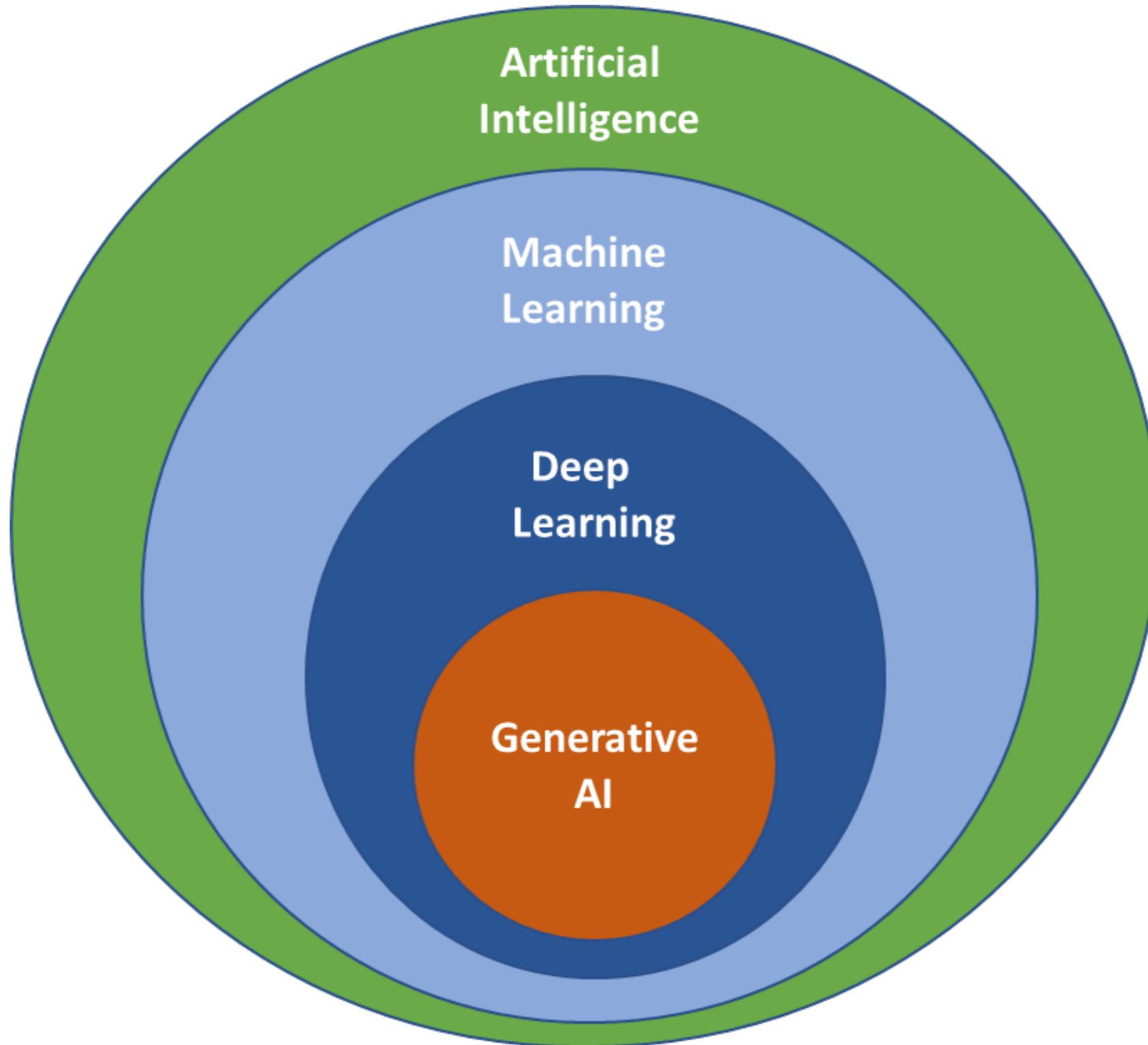
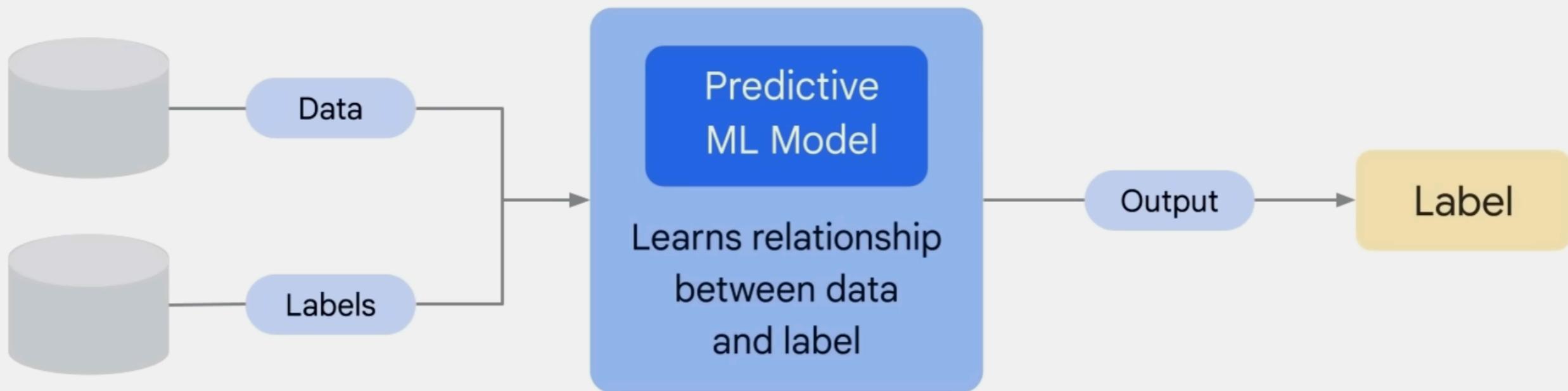


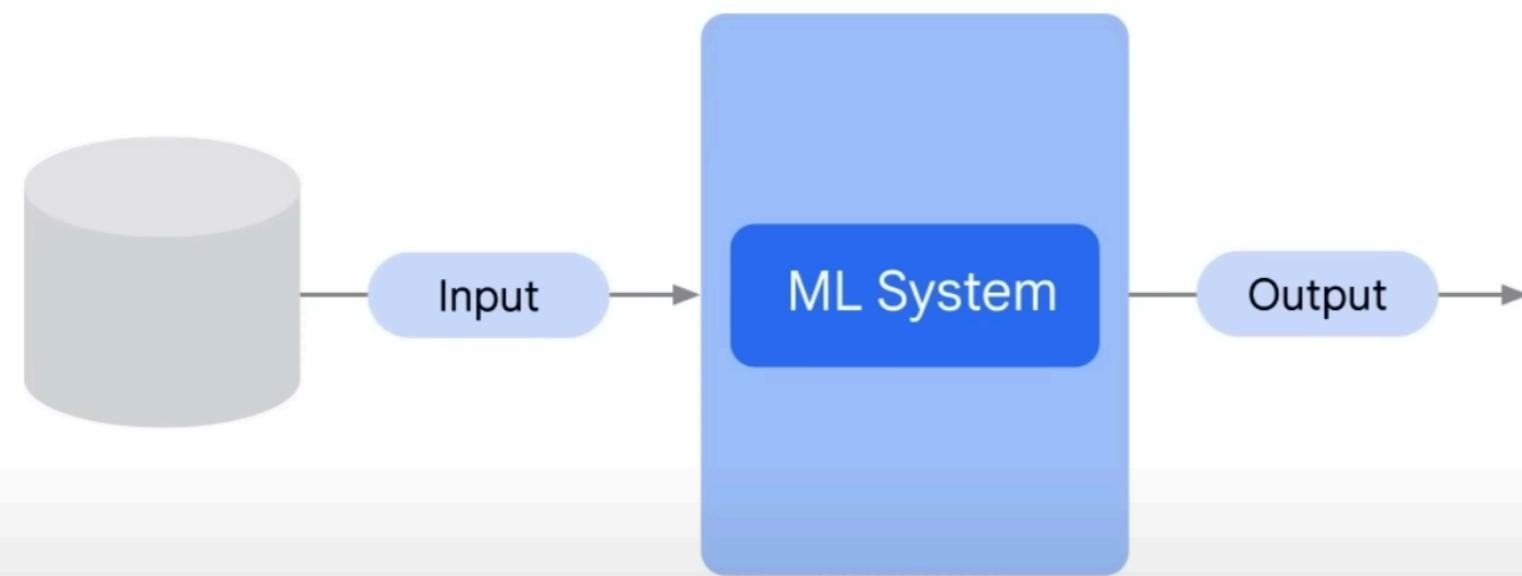
Figure 3: LLM development timeline. The models below the arrow are closed-source while those above the arrow are open-source.

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









Not GenAI when y is a:

- Number
- Discrete
- Class
- Probability

Is GenAI when y is:

- Natural language
- Image
- Audio



Application

Infrastructure

Model



Application Tool chains



Global Generative AI Landscape

The Global Generative AI Landscape 2024

AIport

North America

MULTIMODAL	CHATBOTS
Adobe Firefly, Gemini, perplexity	Anthropic, glean, character.ai, YandexART, frame.ai, deepgenomics, OBSERVE-AI, Meta
TEXT	IMAGE
NVIDIA, AssemblyAI, Suno, Sounful, ElevenLabs	ImageFX, Rephrase.ai
AUDIO	VIDEO
AssemblyAI, Suno, Sounful, ElevenLabs	NVIDIA, OpenAI SORA, Rephrase.ai
CODE	3D
mosaicML, LEVELAI, layer6	lumen5, RUMBLE, ROBLOX
BUSINESS INTELLIGENCE	GAMES

Europe

MULTIMODAL	CHATBOTS	TEXT
runway, YandexART	MISTRAL AI, LightOn, YandexGPT	ella, Kafkai, AdCreative, lang.ai
		contents.com, clearword, SMARTLY.IO
IMAGE	VIDEO	3D
READY TO USE	stability.ai	stability.ai, blackshark.ai
CODE	AUDIO	BUSINESS INTELLIGENCE
stability.ai	ACCELERAT.AI, USICO	COLUCINITY, lizard, DeepMind, SYNTHO
	lumen5, VOICEMOD	

South America

IMAGE
MUTT DATA

Africa

CHATBOTS	AUDIO	BUSINESS INTELLIGENCE

Asia

CHATBOTS
AI21 studio, CHAI, Tymely, Tencent 腾讯
MetaDialog, HUA ZANG, gnani.ai, NAVER, SAMSUNG
VinBase, SAMSUNG, du, BRD, synonym, D-ID, Tencent 腾讯, SAMSUNG
TEXT
IMAGE
SAMSUNG, SAMSUNG, SAMSUNG, SAMSUNG
MULTIMODAL
VIDEO
AUDIO
GAMES
Dübverse, Hour One, codium, tabnine, soul machines, TAIGER
CODE
BUSINESS INTELLIGENCE

Oceania

IMAGE	VIDEO	AUDIO
NightCafe, soul machines		splash

 COMPANIES DEVELOPING TWO OR MORE TYPES OF MODELS

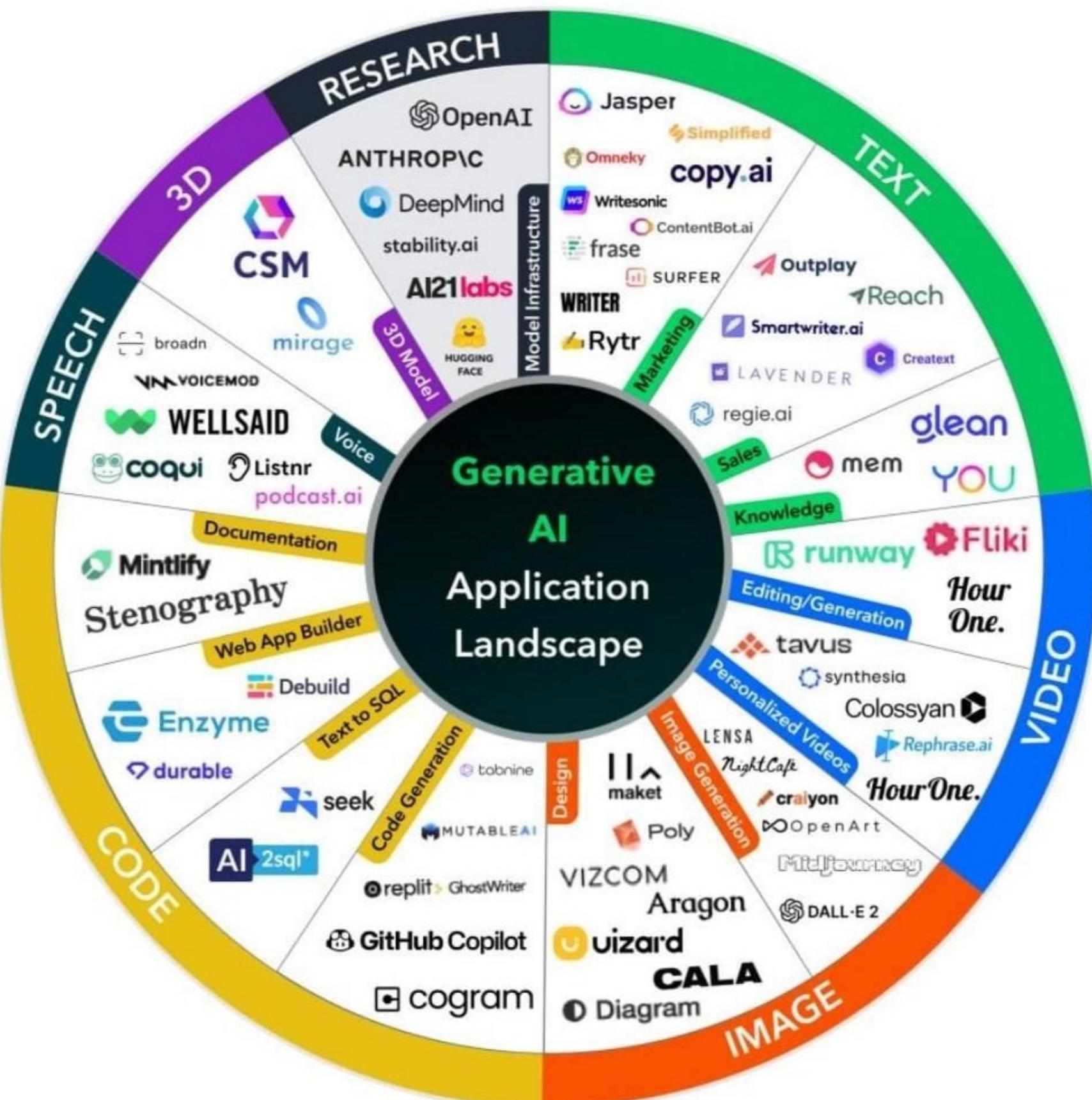
<https://www.blog.aiport.tech/p/the-first-truly-global-generative>



Sharing

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Tool chains category

Assist
tasks

Interaction
modes

Prompt
composition

Properties of
model



Assist tasks

Finding information faster in context

Generating code

Reasoning about code

Transforming code into something ..

Requirement

Design

Develop

Testing

Deploy

Software Delivery Lifecycle



Interaction modes

Chat interfaces

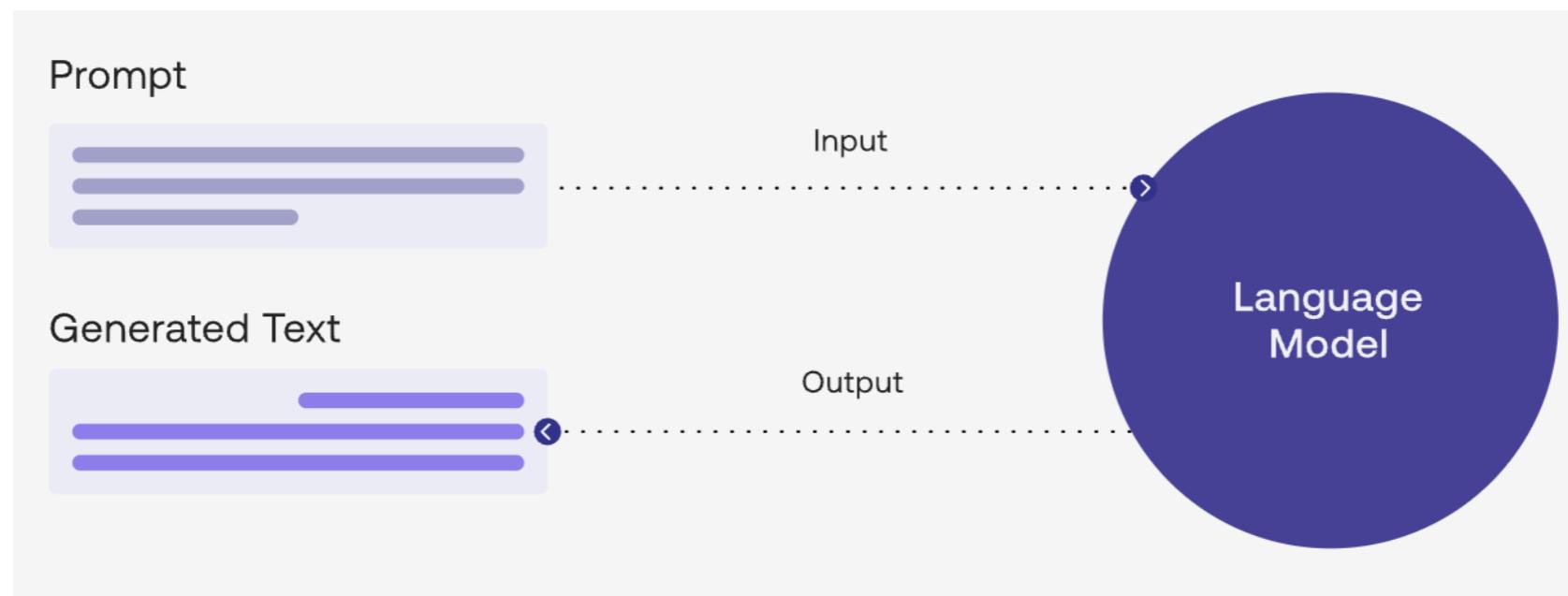
In-line assistance (typing in code editor)

CLI



Prompt composition

Prompt engineering
Compose prompt from user input and context



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



Better Prompt

Write clear instructions

Provide reference text

Split complex tasks into simpler subtasks

Give the model time to think

Testing and improve ...

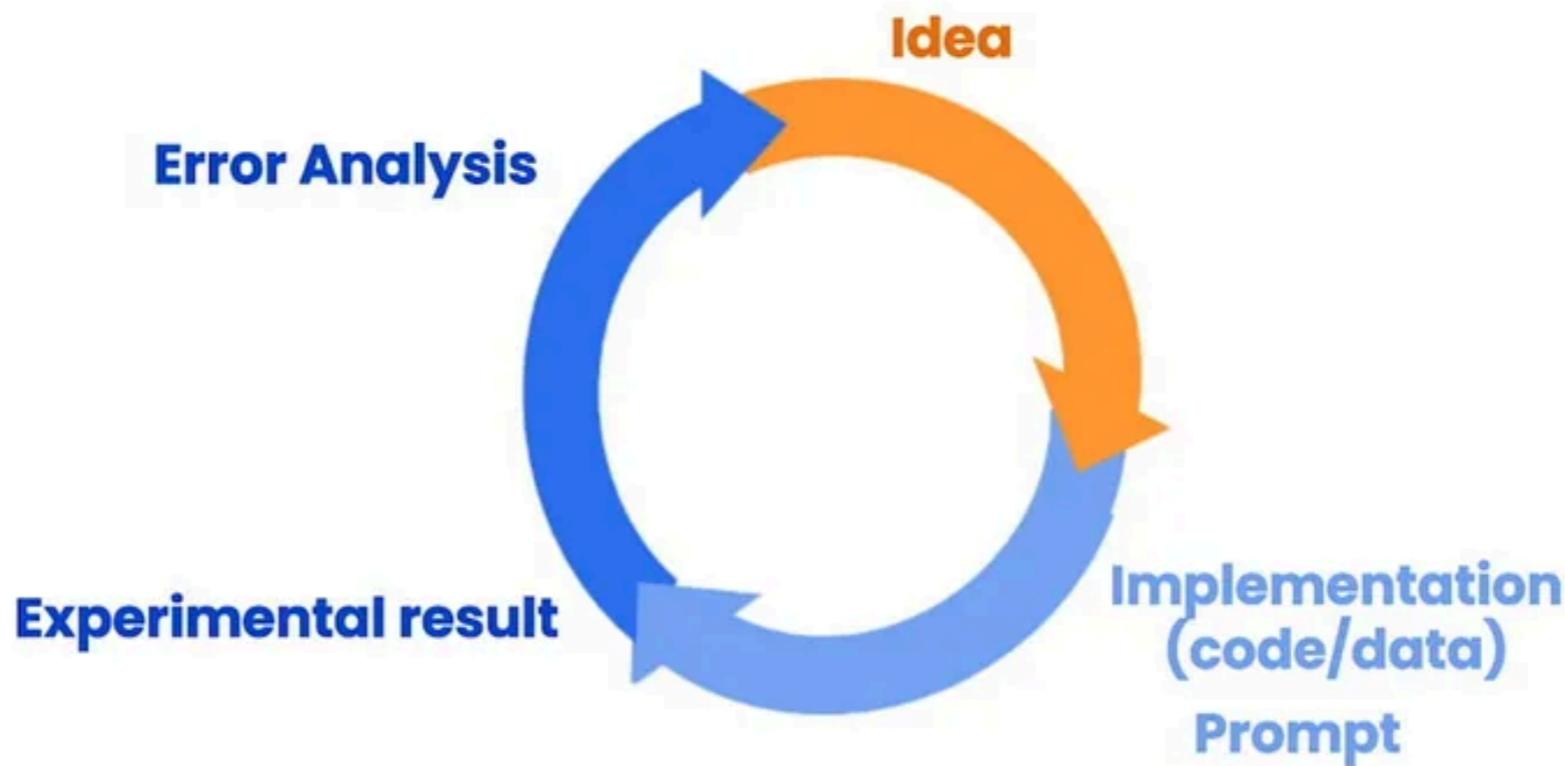
<https://platform.openai.com/docs/guides/prompt-engineering>



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Iterative Prompt Development



Iterative Process

- Try something
- Analyze where the result does not give what you want
- Clarify instructions, give more time to think
- Refine prompts with a batch of examples

<https://www.deeplearning.ai/short-courses/chatgpt-prompt-engineering-for-developers/>



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List of tools

Tool	Task	Interaction
ChatGPT/Bard/Bing	All	Chat
GitHub Copilot	Code generation	In-line assistance
GitHub Copilot Chat	All	Chat
GPT Engineer	Code generation	CLI
WireGen	Wireframe generation	Chat
Make real	UI generation	UI
V0.dev	UI generation	Chat



Chat and Search



Chat and Search

Gemini

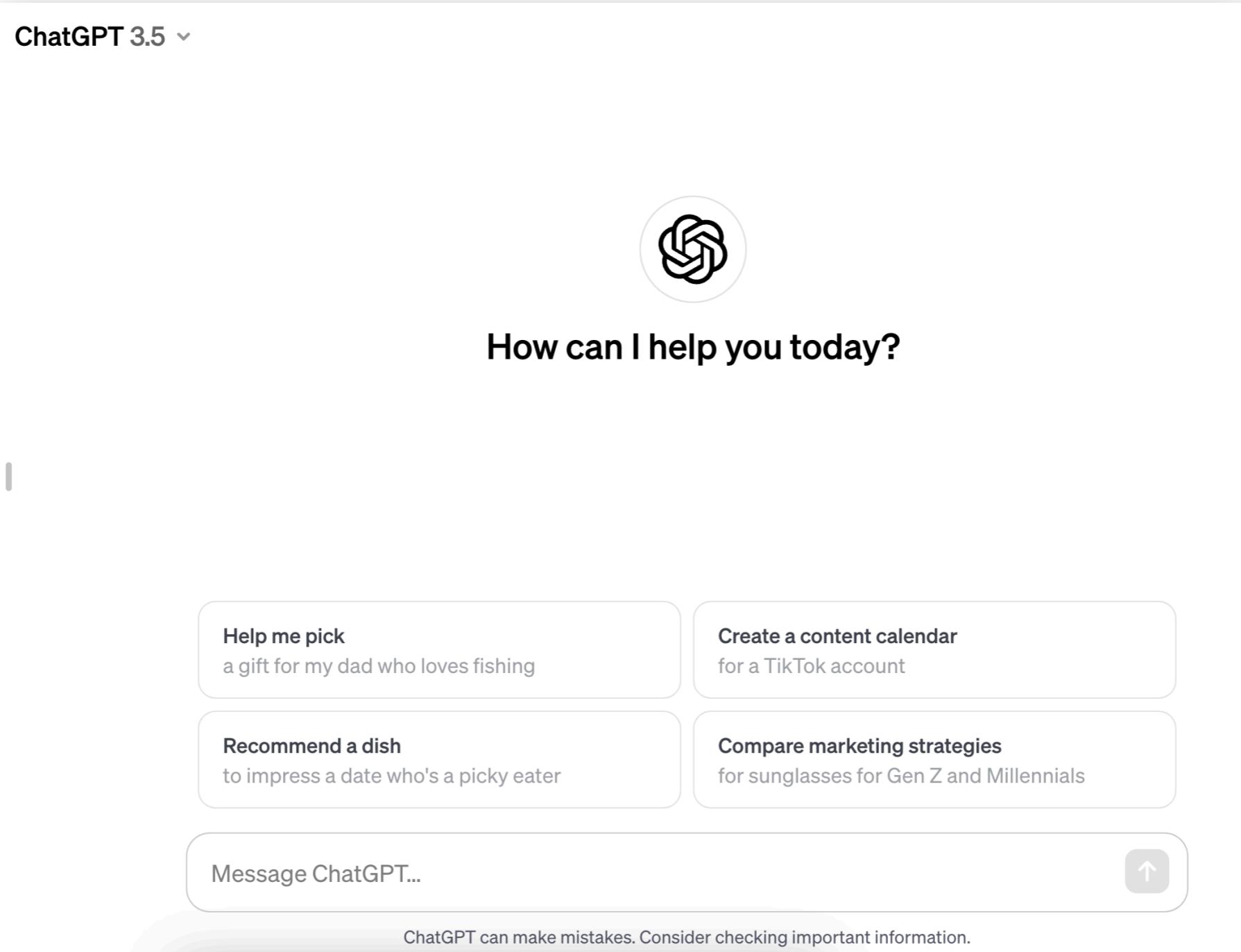


ChatGPT



ChatGPT from OpenAI

ChatGPT 3.5 ▾



The image shows the ChatGPT interface. At the top left is the text "ChatGPT 3.5 ▾". In the center is a circular icon containing a stylized AI logo. Below it is the question "How can I help you today?". There are four suggested prompts in boxes: "Help me pick a gift for my dad who loves fishing", "Create a content calendar for a TikTok account", "Recommend a dish to impress a date who's a picky eater", and "Compare marketing strategies for sunglasses for Gen Z and Millennials". At the bottom is a message input field with the placeholder "Message ChatGPT..." and an upward arrow icon. A note at the bottom states "ChatGPT can make mistakes. Consider checking important information."

Help me pick
a gift for my dad who loves fishing

Create a content calendar
for a TikTok account

Recommend a dish
to impress a date who's a picky eater

Compare marketing strategies
for sunglasses for Gen Z and Millennials

Message ChatGPT... 

ChatGPT can make mistakes. Consider checking important information.

<https://chat.openai.com/>



Google Gemini

Hello, somkiat

How can I help you today?

Help create a weekly
meal plan for two



Settle a debate: how
should you store
bread?



Improve the readability
of the following code



Revise my writing and
fix my grammar



Your conversations are processed by human reviewers to improve the technologies powering Gemini

Enter a prompt here



Gemini may display inaccurate info, including about people, so double-check its responses. [Your privacy & Gemini Apps](#)

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



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Microsoft Bing

Microsoft Bing

SEARCH

CHAT

ไทย

somkiat



Bing is your AI-powered copilot for the web



What's the next trend in fashion and where should I shop to find it?



Create a table that helps me plan meals for the next two weeks



What are the top three vehicles for a family of six on a budget?



Create a slogan for a new social media platform that specializes in sarcasm



What's the best-reviewed coffee grinder?



Write a joke that my coworkers would find funny



Write an original fable about a fish and a frog finding love

Bing is powered by AI, so surprises and mistakes are possible. Please share feedback so we can improve! [Terms](#) | [Privacy](#)

<https://www.bing.com/search?q=Bing+AI&showconv=1&FORM=hpcodx>



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Design



Canva

The screenshot shows the Canva interface with the following elements:

- Left Sidebar:** Includes icons for Design, Brand, Elements, Text, Uploads, Apps, and Magic Media.
- Middle Left Panel (Magic Media):** A "Magic Media" section with tabs for "Images" (selected) and "Videos". It features a text input field: "Describe the image you want and we'll generate it for you.", a text area with placeholder "Blue and green space rover lost in a strange planet", a "Try an example" button, and a "Generate AI Images" button.
- Right Side (Storyboard):** A "Storyboard" section titled "Day • Establishing Shot • Pan". It shows a frame 1 of a landscape with clouds and green hills. Annotations include "Add sandstorm CGI in post prod" (Sam), "APPROVED BY DIRECTOR" (Vin), and "1". Below the storyboard, text reads: "Action: Opening shot of the barren, red Martian landscape. We hear the sound of a rover approaching. Cut to the inside".
- Top Right:** User profile icons and a "Share" button.

<https://www.canva.com/ai-image-generator/>



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FigJam AI



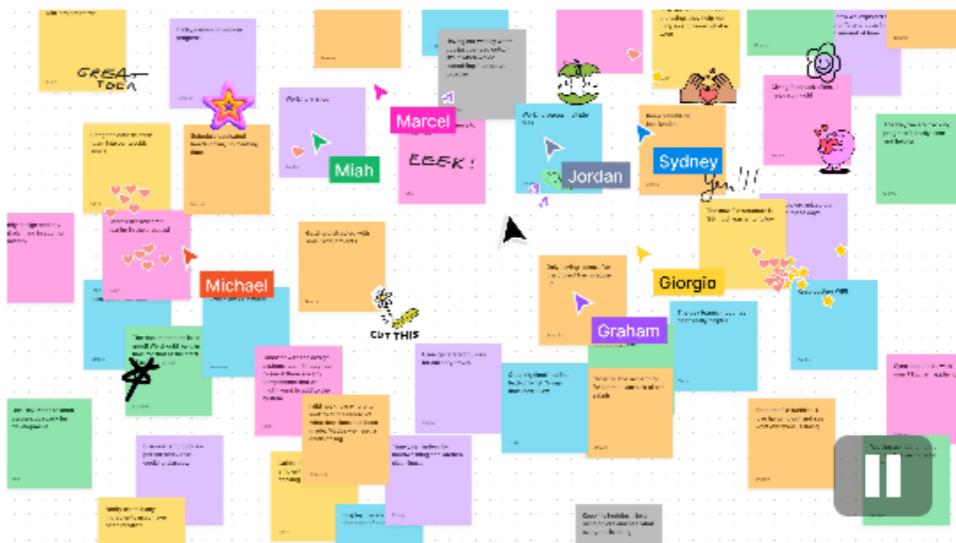
Products ▾ Enterprise ▾ Pricing Resources ▾ Community ▾ Contact sales Log in

Get started for free

Redesign the way you jam with FigJam AI

FigJam AI helps you instantly visualize ideas, suggest best practices, and automate tedious tasks.

Try it out



<https://www.figma.com/figjam/ai/>



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Notion AI

Novel Ideas

Write me 5 novel ideas

1. A world where people's dreams are connected and used to create a utopia.
2. A society where everyone has a unique superpower, but using it comes at a cost.
3. A time-traveling detective must solve a series of murders that have ripple effects throughout history.
4. A group of survivors must navigate a post-apocalyptic world where the sun has vanished.
5. A person discovers they have the ability to enter and manipulate memories, but using this power comes with unforeseen consequences.

✨ Tell AI what to do next...



⚠️ AI responses can be inaccurate or misleading. Learn more



✓ Replace selection

☰ Insert below

↗ Continue writing

⠇ Make longer

↶ Try again

🗑 Discard

<https://www.notion.so/product/ai>



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Image/VDO/3D



Mid Journey

kc i ep,g
ab lggit
go hi o
Vi i oiabl
R ncti trec,gl srtarhc,rocev QH nni eelltttssssaaaaabbbbbaaa
n sle c,gfei nvwsecrhi uoC na ,w ,derr ttttteeesssii dddhhii Katsnngiasypes rint stat
sle,c elei na grdyCdeni ane uaebattedoooll tttttaaagggggeeee d mmtth,, of d hfane pic p it
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snst,e o,3yat i, u i k etite rr22ni it a snosi rtfits iw yii vv,,J ssttaoni bvv pri tel
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eheta,ne e ntmt timiuvaaoA elea nr ,rrrrrrr ul cmm ni ev,ootn ygolsIIrkhhk iiaetkwimin
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pd a h lyr ao ua h o dn n ro c n t c s ou l elcem gciLtyafps
s bu ripn s [V-C]-[O]---ow na t oc luelceornit eamooe
pl a lr ijt [V]-[O]---ow na se rsrey tfitsnblp w
la aMna [V]-[O]---ow na cir esecetafo lniao n
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ne ia sbu c uro eou a a,io on ni de e ;eh n v t g arh agr daeoheraptog
n Mvl1pb, c c usrv ierrri s S e o ya ge t io rrh gr l h n nwptola
u e mvl/pu,b ci e estcioa n,nt c e g wde ae no p h nlns ufs
er a te at tmv 5i b y eP ti iob dmgva i r aoiomatt ye iihmn noae lu p
ao o uta o 5rrmbb conyyynnoeerits L ob ris tn i yr aotwetr/ao y n te l rnnlafnor
luni to suyynoooooonn bo r vei ei i e saotgetr/lofls atl sis ooafirta
ciaa teona lnuj o si s e fnnu aa t/poff a all nas iscrtedhh
ibiG ard ,tt , tu on r, a dinsrlg netem if a llretmais rrudhp
el el t th r i ,lfaurugln,yopci vh igeisyi gfeeaem eed
ibb gggg iil aa ts i dol o ,y ccigonwt onbcarlgnotpyb enni
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nairt srudthclgog gncarifgnar3 esfcnoP enigami/

<https://www.midjourney.com/>



Hugging Face

The screenshot shows the Hugging Face homepage. At the top, there is a navigation bar with links for Models, Datasets, Spaces, Docs, Solutions, Pricing, Log In, and Sign Up. A search bar is also present. Below the header, there is a large banner featuring a yellow cartoon character and the text "The AI community building the future." A subtitle below the banner reads: "The platform where the machine learning community collaborates on models, datasets, and applications." To the right of the banner is a sidebar with categories like Tasks, Libraries, Datasets, Languages, Licenses, Other, Multimodal, Computer Vision, Natural Language Processing, Audio, and Tabular. Under each category, there are sub-links for various sub-tasks. On the far right, there is a list of public models, each with a name, description, and statistics (e.g., updated date, downloads, likes).

Model Name	Description	Last Updated	Downloads	Likes
meta-llama/Llama-2-70b	Text Generation	4 days ago	25.2k	64
stabilityai/stable-diffusion-xl-base-0.9	Updated 6 days ago	2.01k	393	
openchat/openchat	Text Generation	2 days ago	1.3k	136
illyasviel/ControlNet-v1-1	Updated Apr 26	1.87k		
cerspense/zeroscope_v2_XL	Updated 3 days ago	2.66k	334	
meta-llama/Llama-2-13b	Text Generation	4 days ago	328	64
tiiuae/falcon-40b-instruct	Text Generation	27 days ago	288k	899
WizardLM/WizardCoder-15B-V1.0	Text Generation	3 days ago	12.5k	332
CompVis/stable-diffusion-v1-4	Text-to-Image	About 17 hours ago	448k	5.72k
stabilityai/stable-diffusion-2-1	Text-to-Image	About 17 hours ago	782k	2.81k

<https://huggingface.co/>



DALL.E 2 from OpenAI



Research ▾ Product ▾ Safety Company ▾

DALL·E 2

DALL·E 2 is an AI system that can create realistic images and art from a description in natural language.

[Try DALL·E ↗](#)

[Follow on Instagram ↗](#)

<https://openai.com/dall-e-2>



AI DeepFake !!



Celebrity Deepfakes AI Image Generator Premium Sign up Log in 日本語 English



Online Deepfake Maker

オンラインフェイススワップツール

動画を作成する

<https://deepfakesweb.com/>



Working in SDLC



GenAI Impact developer productivity ?

Automated
simple tasks

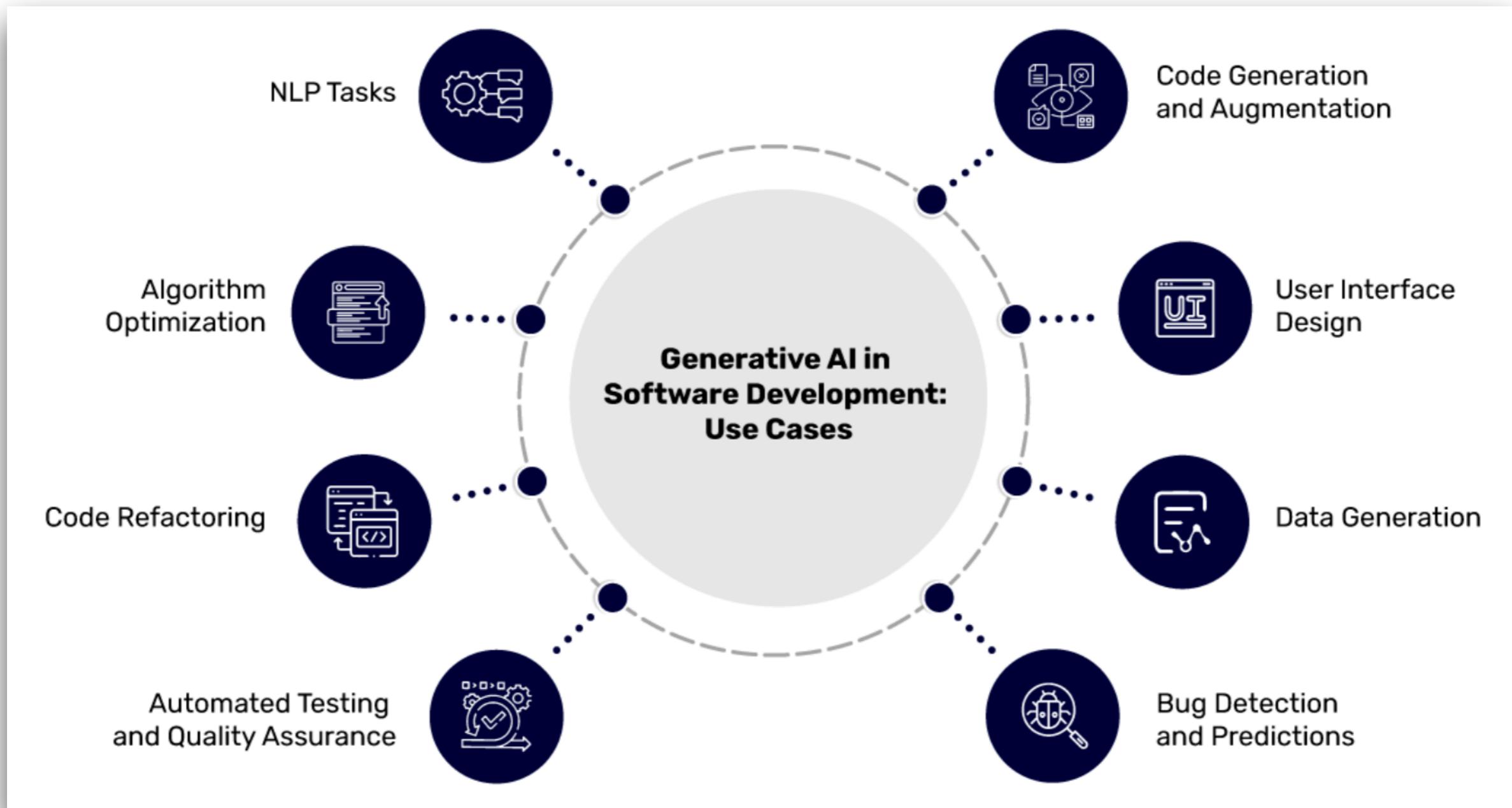
Improve quality
and reliability

Improve
communication

Faster
prototype



SDLC



SDLC

Requirement

Design

Develop

Testing

Deploy



Requirement and Analysis

Requirement

Design

Develop

Testing

Deploy

Requirements writing and analysis
User story generation



User Story Generator



Product ▾ Solutions ▾ Learn ▾ Tools ▾ Pricing

Contact sales Log in

Sign up for free

Improve your Agile development process with our AI-powered user story generator – create user stories quickly and easily for successful project outcomes.

Generate AI Agile User Story

Start with AI

Dynamic AI builders 100% fully customizable Edit & download on-the-go Generate, publish, & share everywhere

The screenshot shows a dark-themed user interface for generating user stories. At the top, there's a navigation bar with icons for file operations (New, Open, Save, etc.) and a toolbar with various project management and collaboration icons. Below this is a main content area where a user story is being built. The story starts with a bullet point and a bold title, followed by three numbered steps. A second section follows with another bold title and five numbered steps. The overall design is clean and modern, with a color gradient on the left side of the screen.

- **Wishlist Addition**
 1. As a registered user,
 2. I want to be able to add items to my wishlist,
 3. So that I can save items I'm interested in for later purchase.
- ✓ **Acceptance Criteria**
 1. Given that I am a registered user, when I view a product, then I should see an "Add to Wishlist" button.
 2. Given that I click the "Add to Wishlist" button, the product should be added to my wishlist.
 3. Given that a product is in my wishlist, when I visit my wishlist page, then I should see all the products I've added.
 4. Given that a product is in my wishlist, when I click on the product, then I should be taken to that product's page.
 5. Given that a product is in my wishlist, I should have an option to remove it from my wishlist.

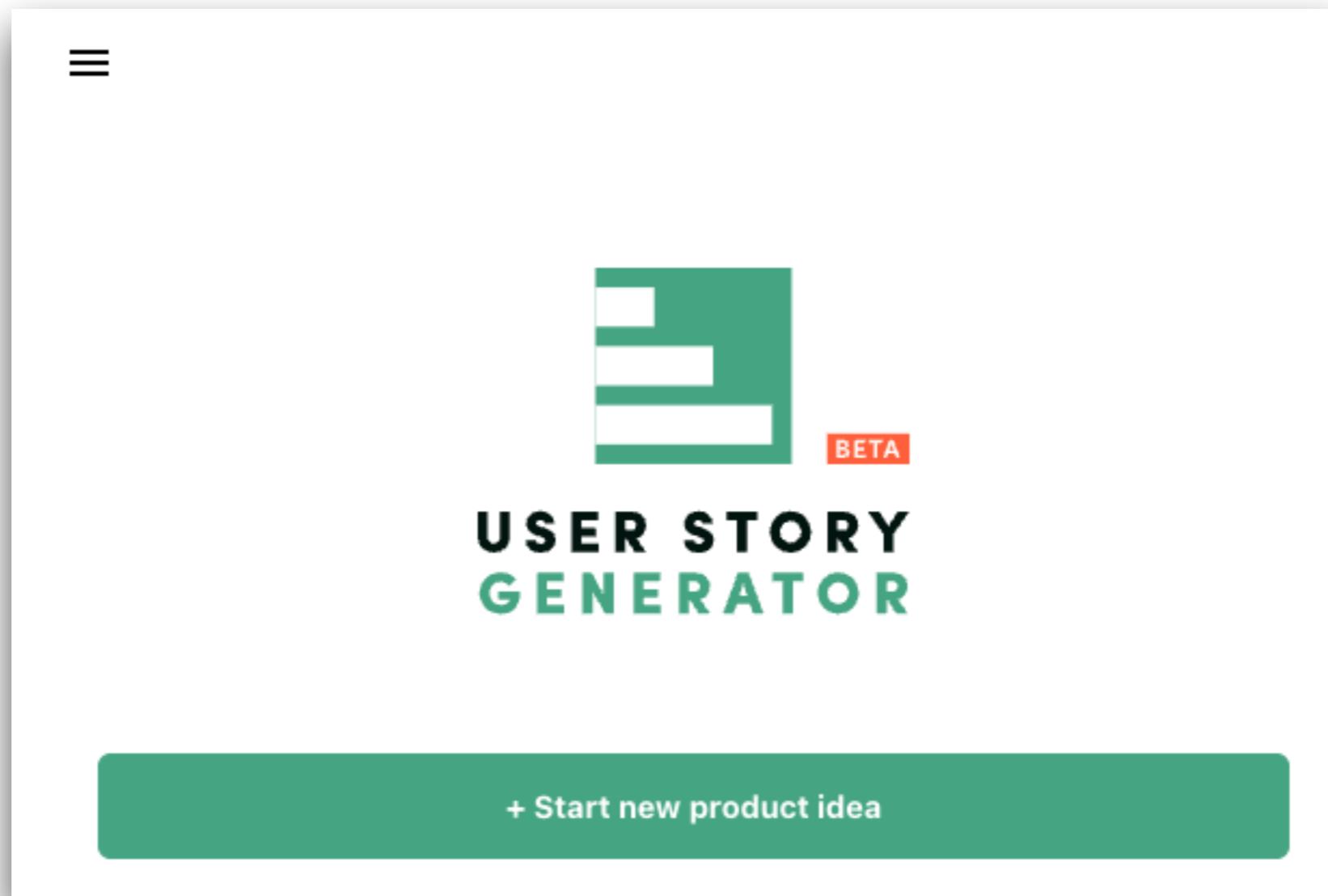
<https://www.taskade.com/generate/project-management/agile-user-story>



Sharing

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User Story Generator



<https://userstorygenerator.ai/>



Notion AI Template

User Story Writer [AI Powered Notion Template]

View template

Aa Title	≡ User Story	≡ Acceptance Criteria	≡ Notes	≡ Business Value	≡ Priority	≡ Story Points
Password Reset Feature	As a user, I want to be able to reset my password using my registered email address or username associated with my account, so that I can regain access to my account in case I forget my password or suspect my account has been compromised.	- The user can reset their password using their registered email address or username associated with their account. - The password reset feature is accessible on all devices, including mobile and desktop. - The password reset email does not contain the user's password or other sensitive information. - The password reset link expires after a specified time period to prevent unauthorized access. - The password reset feature is not available if the user's account is locked or suspended.	- The password reset feature must be accessible to all users, including those with disabilities. - The password reset process must be secure and protect user data from potential threats. - The password reset feature must have a time limit for completion to prevent abuse. - The password reset feature must be logged for audit and security purposes. - The password reset feature must be tested thoroughly before deployment to ensure reliability and functionality.	High	High	3
Introduction of a	As a customer, I want to be	+ A user must be able to leave a rating for a	+ The product review feature should be	Critical	Critical	5

<https://www.notion.so/templates/user-story-writer-ai-powered-notion-template>



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Design

Requirement

Design

Develop

Testing

Deploy

Architecture writing assistance

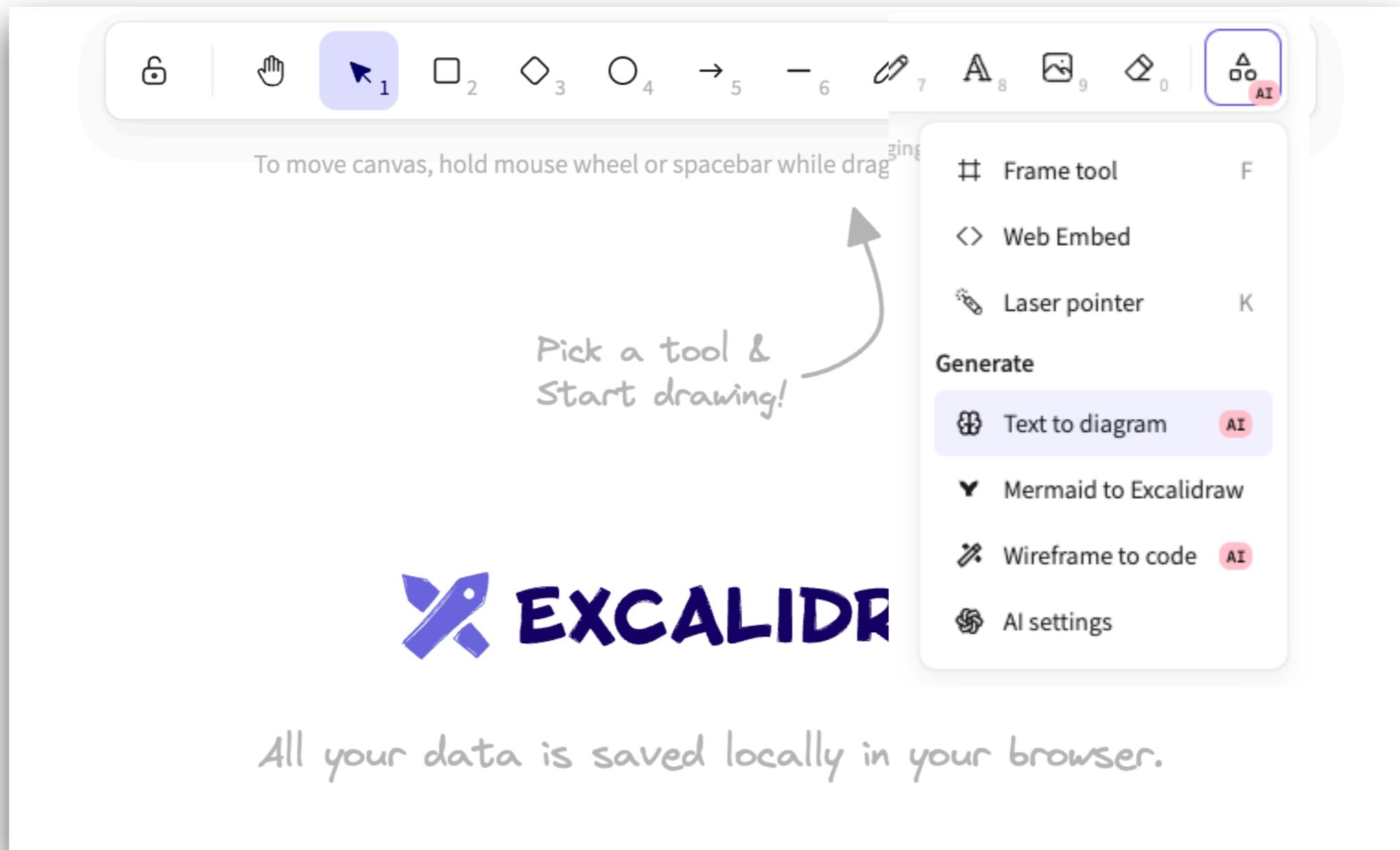
Sequence flow diagram generation

Data modeling

UX/UI design assistance



Excalidraw with AI



<https://excalidraw.com/>



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Demo

[Text to diagram](#) AI Beta [Mermaid](#)

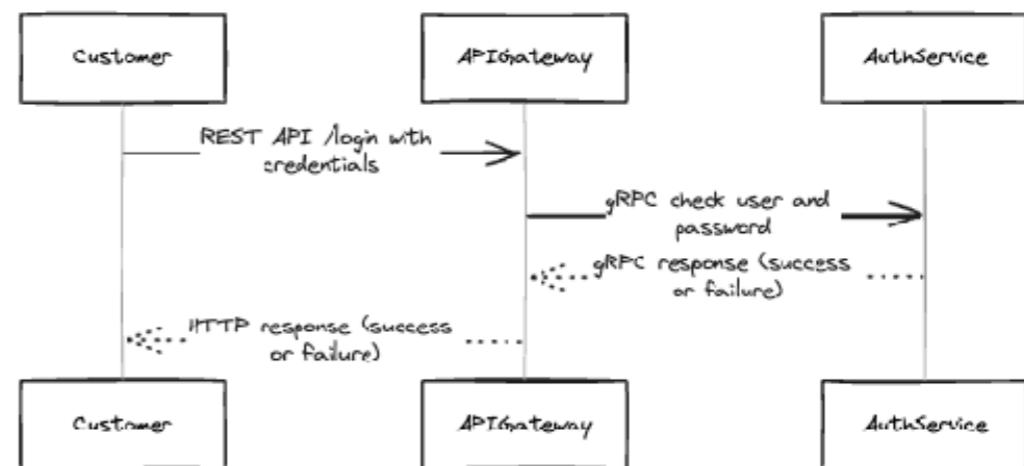
Currently we use Mermaid as a middle step, so you'll get best results if you describe a diagram, workflow, flow chart, and similar.

Prompt

9 requests left today

Try to generate authentication service from below
1. Customer call api gateway with REST API /login
2. Api gateway check user and password from auth service via gRPC
3. API gateway send response to client

Preview



[Generate →](#)

Cmd Enter

[View as Mermaid →](#)

[Insert →](#)



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Develop

Requirement

Design

Develop

Testing

Deploy

Code generation

Review and explain code

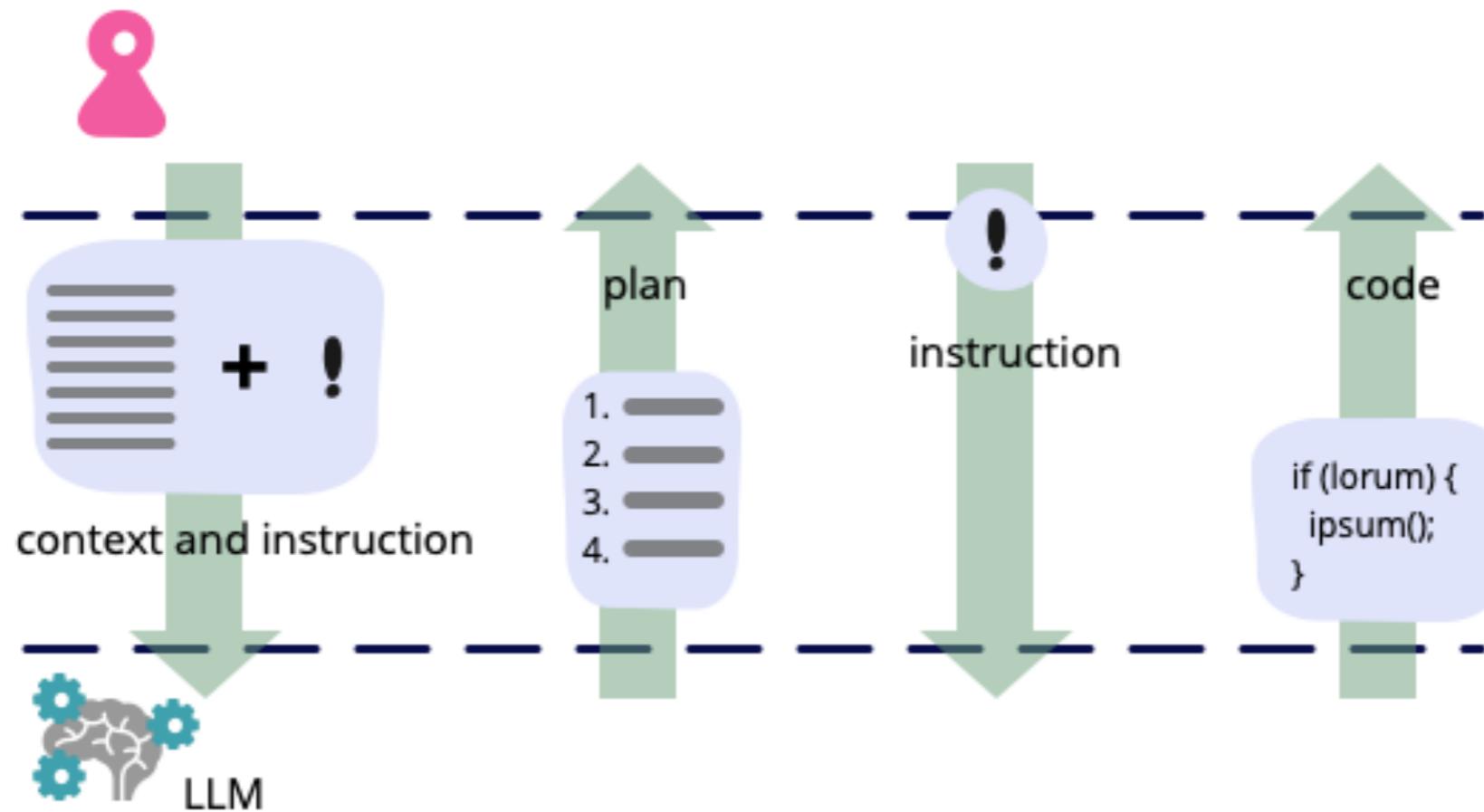
Debugging code

Improve consistency

Code translation

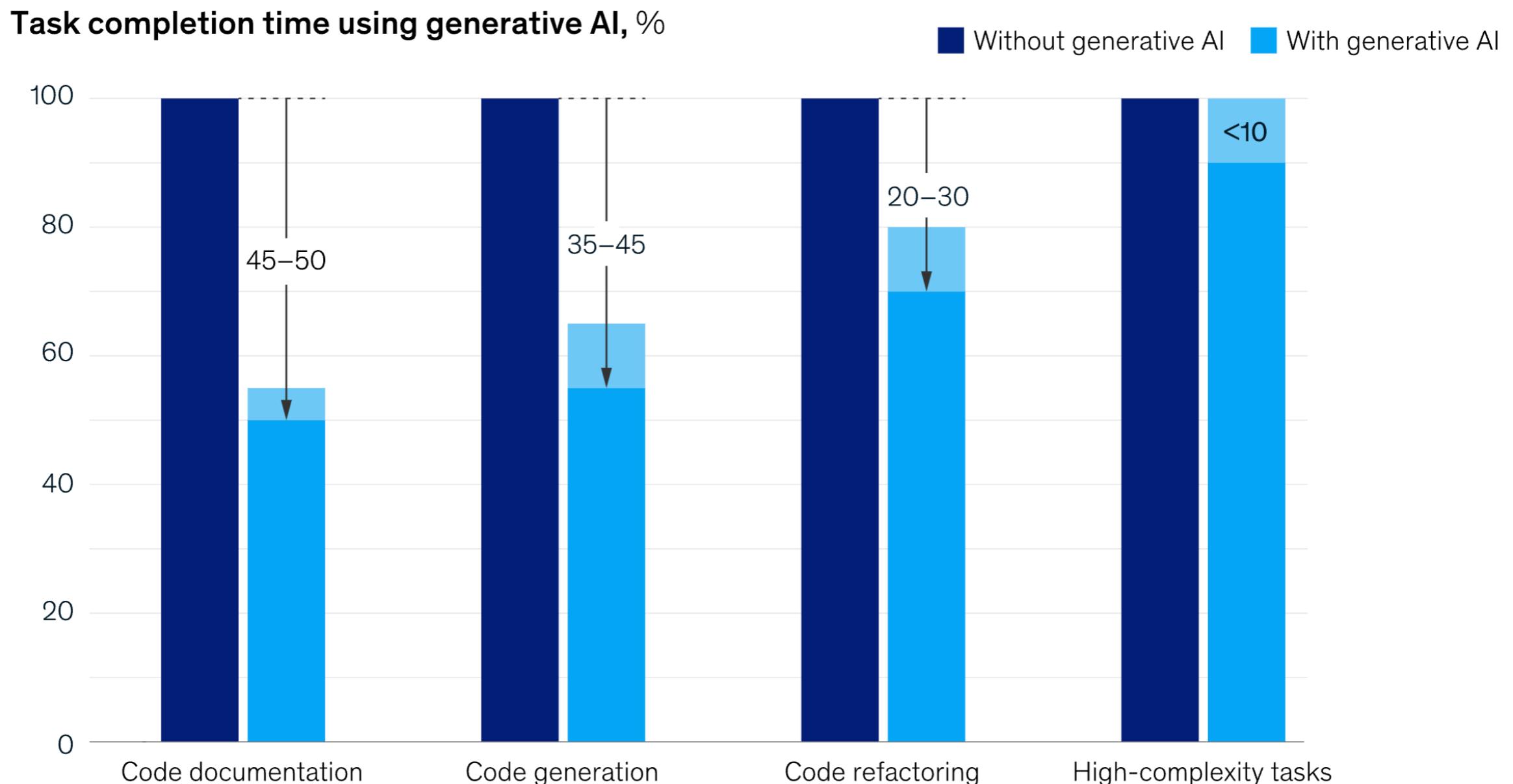


Development



Development

Generative AI can increase developer speed, but less so for complex tasks.



<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/unleashing-developer-productivity-with-generative-ai>



Tools

GitHub Copilot

Codium AI

aider

Continue

Bito



Using GitHub Copilot Chat correlates with better code quality

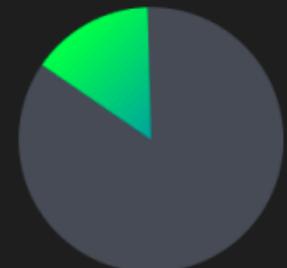
85% of developers felt more confident in their code quality when authoring code with GitHub Copilot and GitHub Copilot Chat

85%



Code reviews were more actionable and completed 15% faster than without GitHub Copilot Chat

15%



88% of developers reported maintaining flow state with GitHub Copilot Chat

88%



Code Review



The image shows the Codium AI homepage. At the top, there is a navigation bar with the Codium AI logo, followed by links for Products, Pricing, Blog, Contact, and About. The main title "Generating meaningful tests for busy devs" is displayed prominently in large white text against a dark blue background. Below the title, a descriptive paragraph explains the product's purpose: "With CodiumAI, you get non-trivial tests (and trivial, too!) suggested right inside your IDE or Git platform, so you can code smart and stay confident when you push. **Code, as you meant it.**" At the bottom, there are two buttons: one for "VS Code" and one for "JetBrains".

Codium AI

Products ▾ Pricing Blog Contact About ▾

Generating meaningful tests for busy devs

With CodiumAI, you get non-trivial tests (and trivial, too!) suggested right inside your IDE or Git platform, so you can code smart and stay confident when you push.
Code, as you meant it.

Get your FREE Codiumate now:

[VS Code >](#) [JetBrains >](#)

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



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Code Review

Introducing **Codeium Teams** →

The modern coding
superpower

AI assistan|

[Get Extension >](#)

[Try in browser](#)

<https://codeium.com/>



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AI Pair Programming



```
macbook$ aider demo.py  
Added demo.py to the chat  
Using git repo: .git
```

```
demo.py> add a name param to the `greeting` function. add all the types.
```

I will update the `greeting` function to accept a `name` parameter and include type hints for the parameter and the return type.

```
demo.py  
<<<<< ORIGINAL  
def greeting():  
    print("Hello, world!")  
=====  
def greeting(name: str) -> None:  
    print(f"Hello, {name}!")  
>>>>> UPDATED
```

Applied edit to demo.py
Commit 9237455 aider: Updated greeting function to accept a name parameter and include type hints.

```
demo.py> █
```

<https://github.com/paul-gauthier/aider>



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Auto pilot with Code

```
model.py 4
40     self.nhead_dim = self.dim // self.n_head
41
42     @classmethod
43     def from_name(cls, name: str):
44         if name in transformer_configs:
45             return cls(**transformer_configs[name])
46         # fuzzy search
47         config = [config for config in transformer_configs if config in str(name).upper() or config in str(name)]
48         assert len(config) == 1, name
49         return cls(**transformer_configs[config[0]])
50
51
52     transformer_configs = {
53         "CodeLlama-7b-Python-hf": dict(block_size=16384, vocab_size=32000, n_layer=32, dim = 4096, rope_base=1000000
54         "7B": dict(n_layer=32, n_head=32, dim=4096),
55         "13B": dict(n_layer=40, n_head=40, dim=5120),
56         "30B": dict(n_layer=60, n_head=52, dim=6656),
57         "34B": dict(n_layer=48, n_head=64, dim=8192, vocab_size=32000, n_local_heads=8, intermediate_size=22016, rope_base=10000000),
58         "70B": dict(n_layer=80, n_head=64, dim=8192, n_local_heads=8, intermediate_size=28672),
59     }
60
61     class KVCache(nn.Module):
62         def __init__(self, max_batch_size, max_seq_length, n_heads, head_dim, dtype=torch.bfloat16):
63             super().__init__()
64             cache_shape = (max_batch_size, n_heads, max_seq_length, head_dim)
65             self.register_buffer('k_cache', torch.zeros(cache_shape, dtype=dtype))
66             self.register_buffer('v_cache', torch.zeros(cache_shape, dtype=dtype))
67
68         def update(self, input_pos, k_val, v_val):
69             # input_pos: [S], k_val: [B, H, S, D]
70             assert input_pos.shape[0] == k_val.shape[2]
71
72             k_out = self.k_cache
```

<https://github.com/continuedev/continue>



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AI Code Review



Product ▾ Enterprise ▾ Resources ▾ Pricing Docs Sign in Get Started for Free

Cut review time by 50%

High quality AI code reviews

Get Started →

Get a demo

The screenshot shows a web-based AI code review tool. On the left, there's a sidebar with navigation links like 'services', 'Merge requests' (11), 'Manage', 'Plan', 'Code', and 'Merge requests'. The main area displays a merge request from 'bitoco / services / Merge requests / !264'. It shows the status as 'Merged' and includes sections for 'Code completion', 'Overview' (22 commits, 3 pipelines, 0 changes), and '19 unresolved threads'. A prominent feature is a 'Code Review Agent Run Status' section which states: 'AI Based Review: Successful', 'Static Analysis: Successful', and 'Security Check Analysis: Successful'. Below this, a 'Code Review' section provides a summary of the changes, mentioning 'to support Completion responses' and 'Code change type: Feature Addition, Configuration Changes'. A call-to-action button 'Watch demo' is overlaid on this section. To the right, there are sections for 'Assignees', 'Reviewers', 'Labels', 'Milestone', 'Time tracking', and 'Participants'.

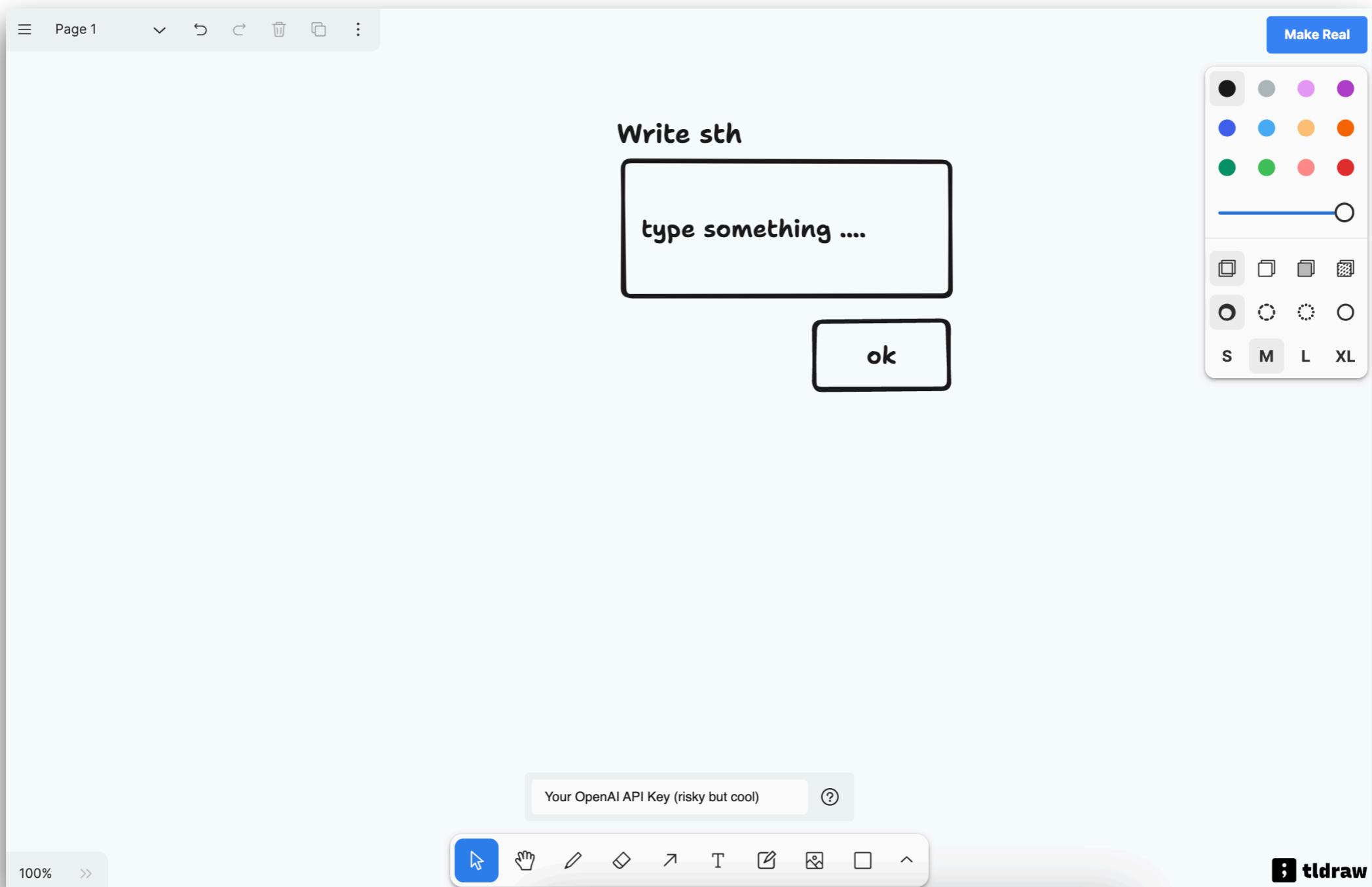
Accessible, accurate AI tools trusted by developers across the world.

<https://bito.ai/>



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Make Real



<https://github.com/tldraw/make-real>



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v0.dev

The screenshot displays the v0.dev platform's interface, featuring a top navigation bar with a logo, a "Private Beta" button, and a search bar containing the placeholder "A 'report an issue' modal". Below the search bar are four circular buttons labeled "Product categories ↗", "Hero section ↗", "Contact form ↗", and "Ecommerce dashboard ↗". The main content area shows several wireframe examples: a "Soccer Game" page with two teams and player profiles; a "Enhance Your Education Journey" landing page; a "Monochromatic Site" with a sidebar; and a "Welcome to the Product Tour" page. At the bottom, there are two rows of more wireframes: a "page for a soccer game,...", a "hero section for a...", a "website in a black and...", and a "product tour like appcues".

<https://v0.dev/>



Screenshot to Code

Screenshot to Code

Sign in Get started

Build User Interfaces 10x Faster

Convert any screenshot or design to clean code (with support for most frameworks)

Get started GitHub 46,018 stars

#1 tool used by developers and designers from leading companies. Fully open source with 46,000+ stars on GitHub.

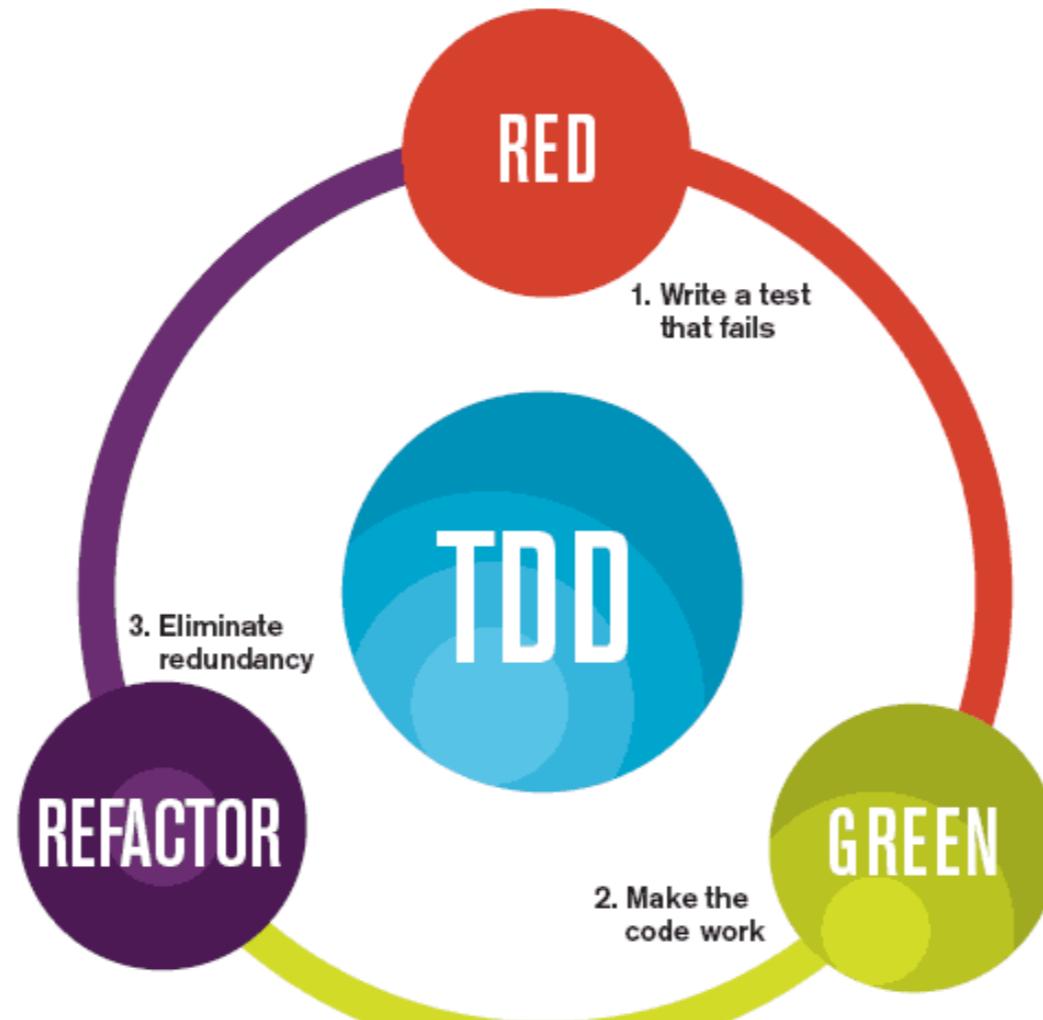
Microsoft Amazon MIT

Stanford ByteDance Baidu 百度

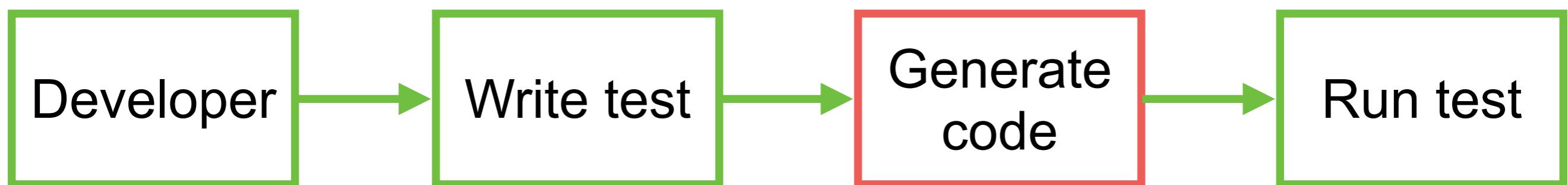
<https://screenshottocode.com/>



Test-Driven-Development



Test-Driven-Development



Testing

Requirement

Design

Develop

Testing

Deploy

Test cases writing
Test code generation
Bug detection

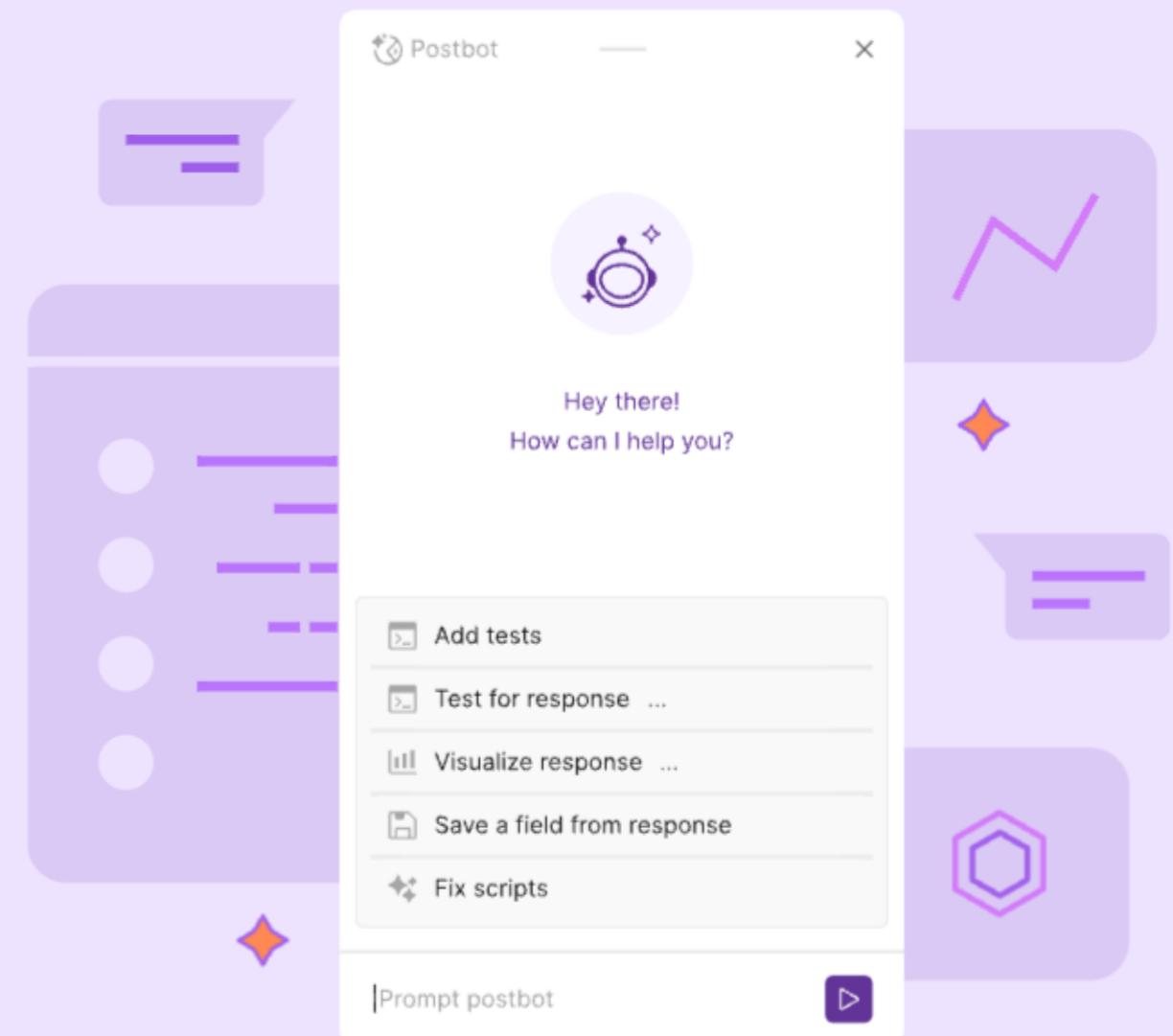


Testing with Postman

Postbot, our AI-powered assistant, will supercharge your API development.

Speed up your most common API development workflows with natural-language input, conversational interactions, and contextual suggestions.

[Get Started](#)



<https://www.postman.com/product/postbot/>



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PostBot

The screenshot shows the Postman application interface. At the top, there's a header bar with a save icon, a dropdown menu, and a red pencil icon. Below the header, a modal window titled "Postbot" is open, featuring a "New on Postbot" section with text about auto-complete tests and a "Hi! How can I help?" input field.

The main workspace displays a "New Request" dialog for a GET request to <https://jsonplaceholder.typicode.com/users/1>. The "Tests" tab is selected. The response body is shown in Pretty JSON format:

```
1 {  
2   "id": 1,  
3   "name": "Leanne Graham",  
4   "username": "Bret",  
5   "email": "Sincere@april.biz",  
6   "address": {  
7     "street": "Kulas Light",  
8     "suite": "Apt. 556".  
9   }  
10 }
```

Below the request dialog, there are tabs for Body, Cookies, Headers (25), and Test Results. The Body tab is selected, showing the JSON response. The status bar at the bottom indicates a 200 OK response.

<https://www.postman.com/product/postbot/>



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6 Keys software quality

Defect density

Code duplication

Hardcode token/key

Security
vulnerabilities

Outdated package

Non-permissive
opensource libraries



Deploy and manage

Requirement

Design

Develop

Testing

Deploy

CI/CD pipeline

Infrastructure as a code

Automated script

Performance and monitoring suggestion

Document generation

AI-assist support

ChatOps, AIOps



PromptOps



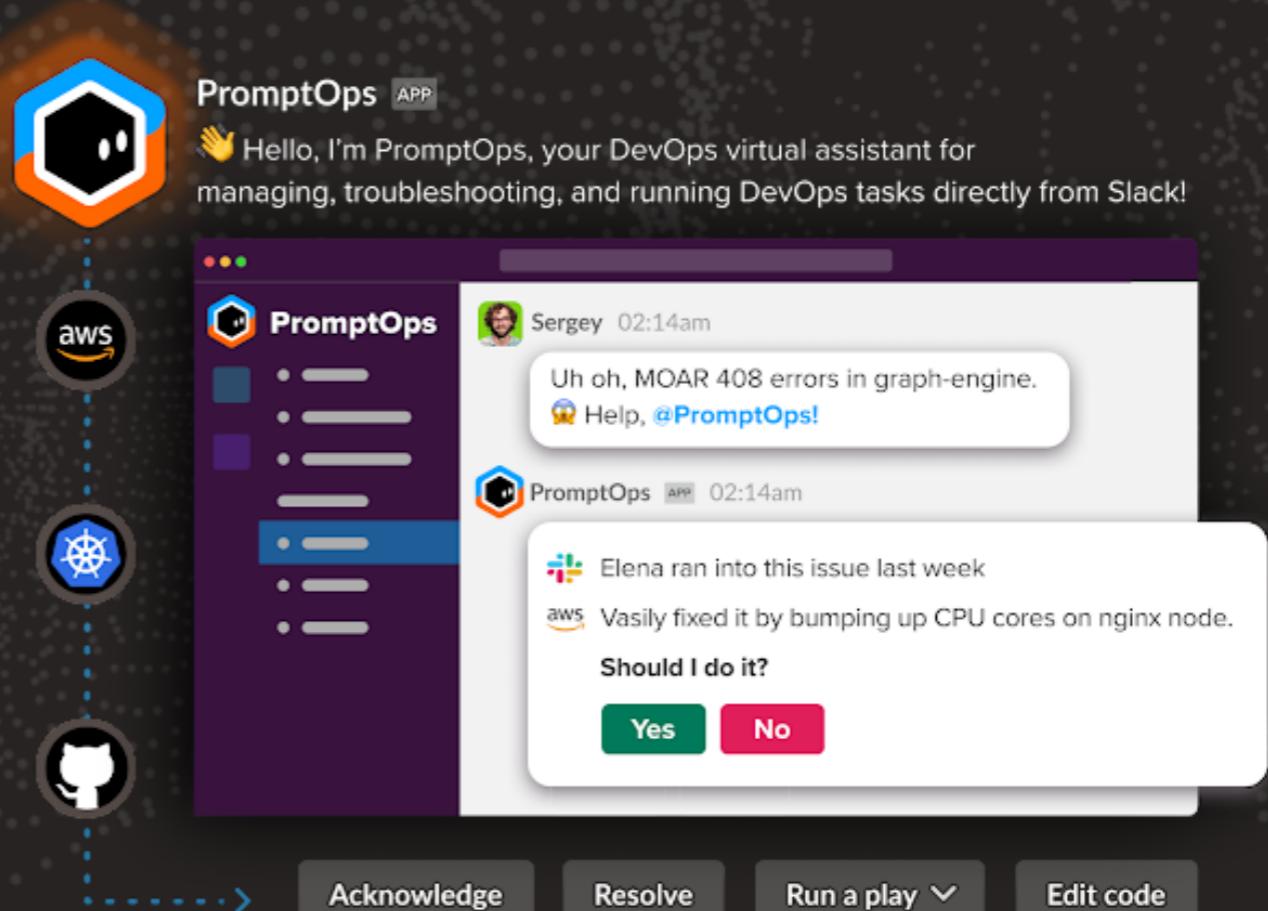
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ChatGPT for your DevOps Teams

Turn DevOps tasks into automated workflows with a single prompt straight from Slack

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<https://www.promptops.com/devops/>



ChatOps for DevOps

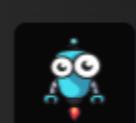
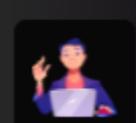
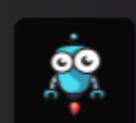
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> ChatGPT for DevOps

Converse with your engineering platforms, powered by LLM.
A virtual teammate to handle DevOps requests so you can handle the rest.

[Add Kubi to Slack](#)

-  Kubi (DevOps)
@Alerts I got an alert from Prometheus:

Deployment 'alert-manager' on namespace 'Openfaas' is experiencing high traffic
-  Kubi (DevOps)
@Alerts Should I increase the number of replicas on 'alert-manager'?
-  Jeff (R&D)
Yes
-  Kubi (DevOps)

✓ The following deployment has been updated:
Deployment: alert-manager
Namespace: Openfaas
Replicas: 3

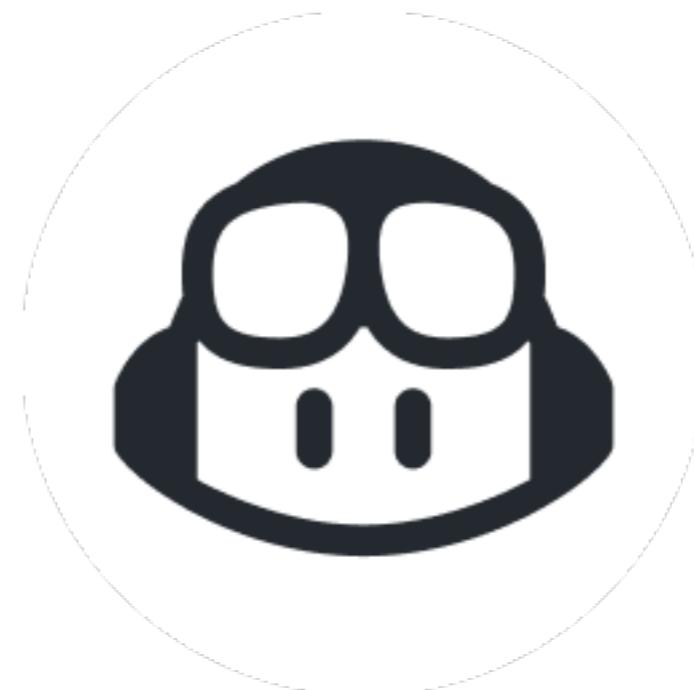
<https://www.kubiya.ai/>



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Demo



<https://github.com/up1/workshop-ai-with-technical-team>





Risks when using Generative AI



Risks

Quality of output generated
Explainability of decisions
Security policy !!
Sensitive data !!



Tips

Understand what you want

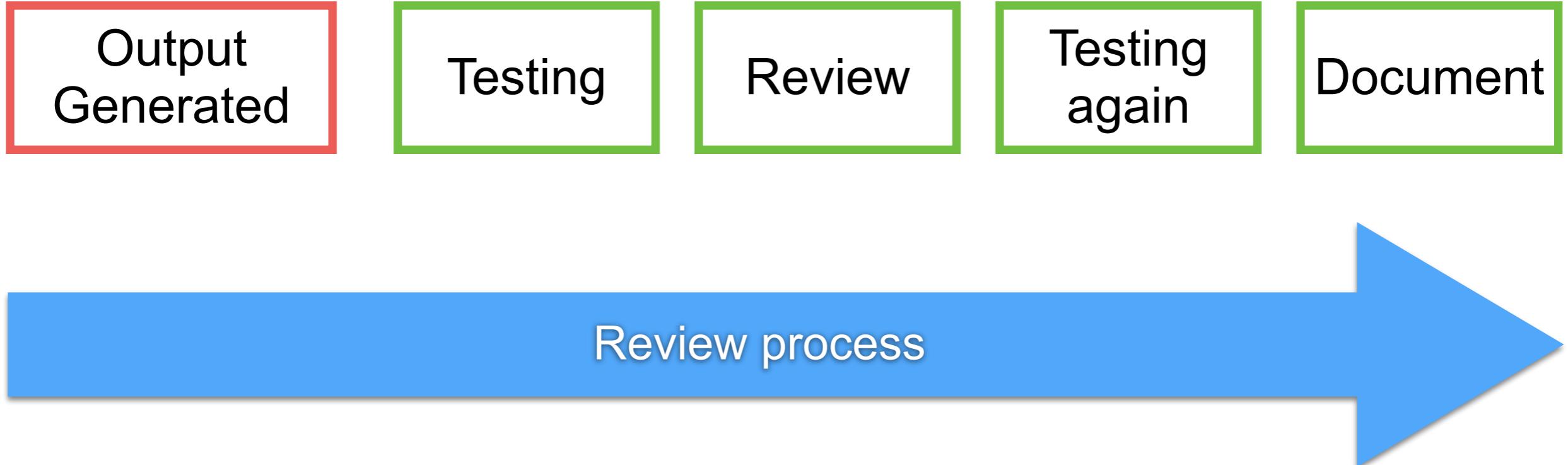
Modular approach

Clear and Precise inputs

Make sure you understand the code

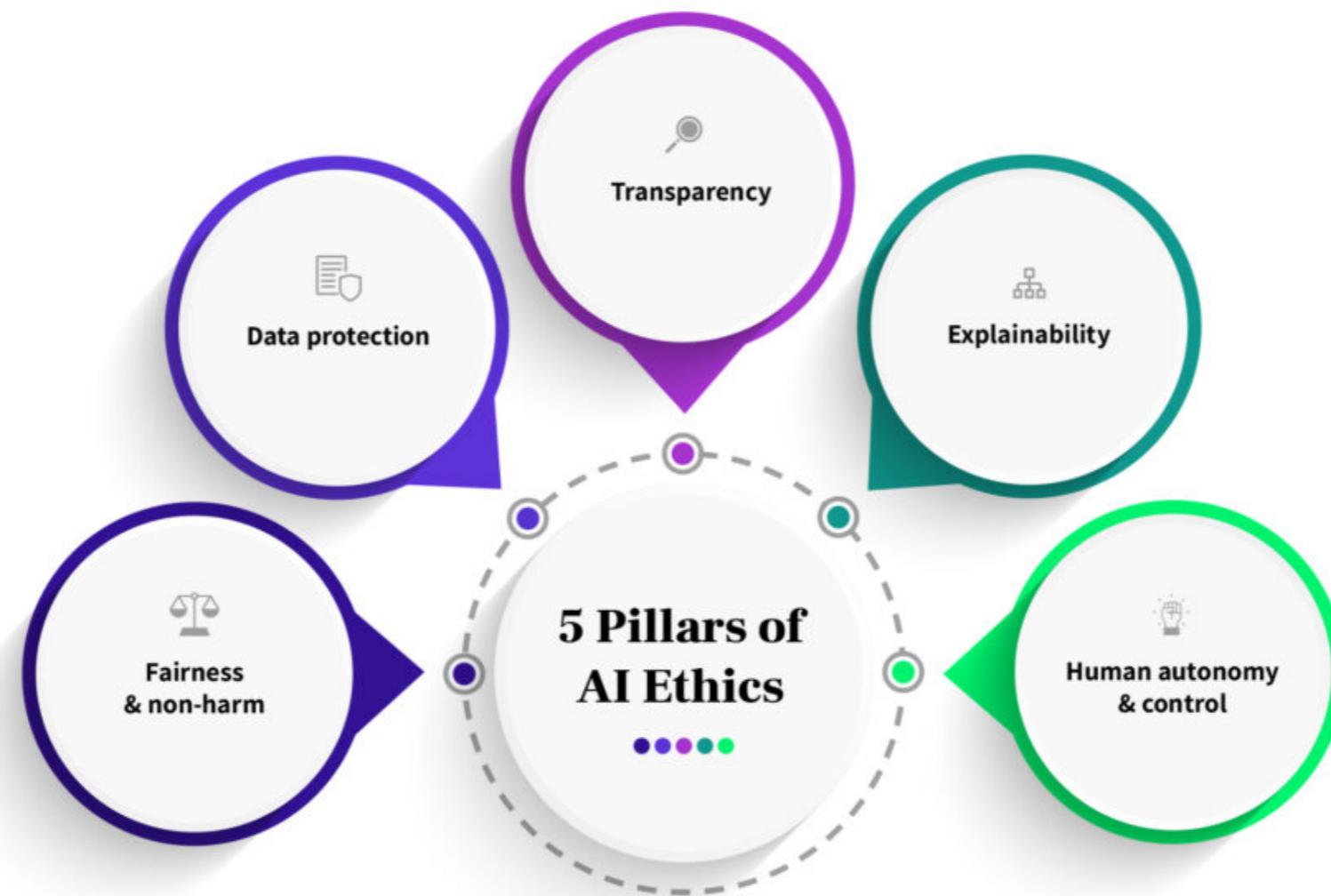


Quality process ?



Skill Required

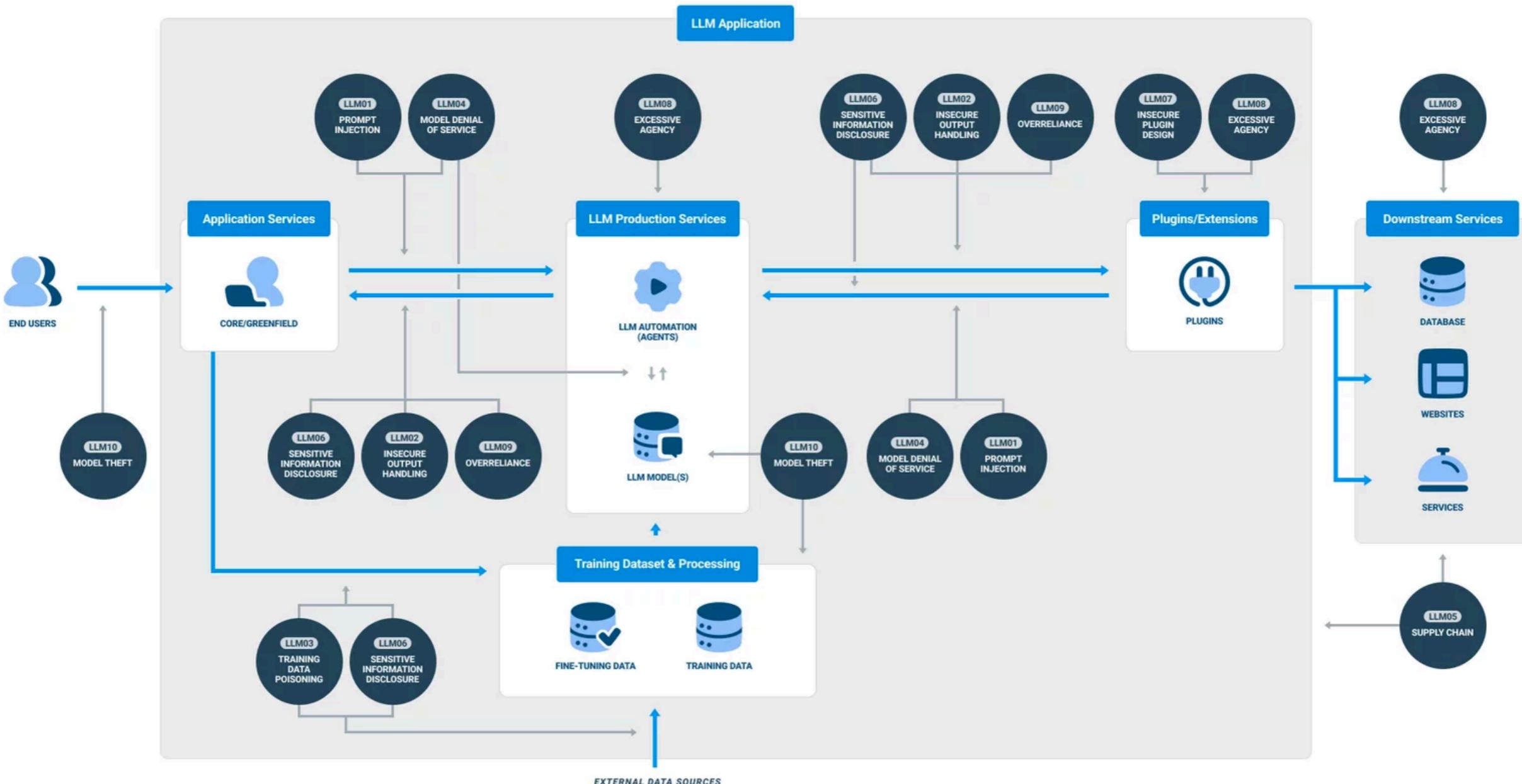
Knowledge of ethical AI principles, legal and regulatory compliance, stakeholder management



Security !!



OWASP Top 10 for LLM app



<https://llmtop10.com/>



OWASP Top 10 for LLM app

LLM01

Prompt Injection

Crafty inputs can manipulate a Large Language Model, causing unintended actions. Direct injections overwrite system prompts, while indirect ones manipulate inputs from external sources.

LLM02

Insecure Output Handling

This vulnerability occurs when an LLM output is accepted without scrutiny, exposing backend systems. Misuse may lead to severe consequences like XSS, CSRF, SSRF, privilege escalation, or remote code execution.

LLM03

Training Data Poisoning

This occurs when LLM training data is tampered, introducing vulnerabilities or biases that compromise security, effectiveness, or ethical behavior. Sources include Common Crawl, WebText, OpenWebText, & books.

LLM04

Model Denial of Service

Attackers cause resource-heavy operations on Large Language Models leading to service degradation or high costs. The vulnerability is magnified due to the resource-intensive nature of LLMs and unpredictability of user inputs.

LLM05

Supply Chain Vulnerabilities

LLM application lifecycle can be compromised by vulnerable components or services, leading to security attacks. Using third-party datasets, pre-trained models, and plugins can add vulnerabilities.

LLM06

Sensitive Information Disclosure

LLM's may reveal confidential data in its responses, leading to unauthorized data access, privacy violations, and security breaches. It's crucial to implement data sanitization and strict user policies to mitigate this.

<https://llmtop10.com/>



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OWASP Top 10 for LLM app

LLM07

Insecure Plugin Design

LLM plugins can have insecure inputs and insufficient access control. This lack of application control makes them easier to exploit and can result in consequences like remote code execution.

LLM08

Excessive Agency

LLM-based systems may undertake actions leading to unintended consequences. The issue arises from excessive functionality, permissions, or autonomy granted to the LLM-based systems.

LLM09

Overreliance

Systems or people overly depending on LLMs without oversight may face misinformation, miscommunication, legal issues, and security vulnerabilities due to incorrect or inappropriate content generated by LLMs.

LLM10

Model Theft

This involves unauthorized access, copying, or exfiltration of proprietary LLM models. The impact includes economic losses, compromised competitive advantage, and potential access to sensitive information.

<https://llmtop10.com/>



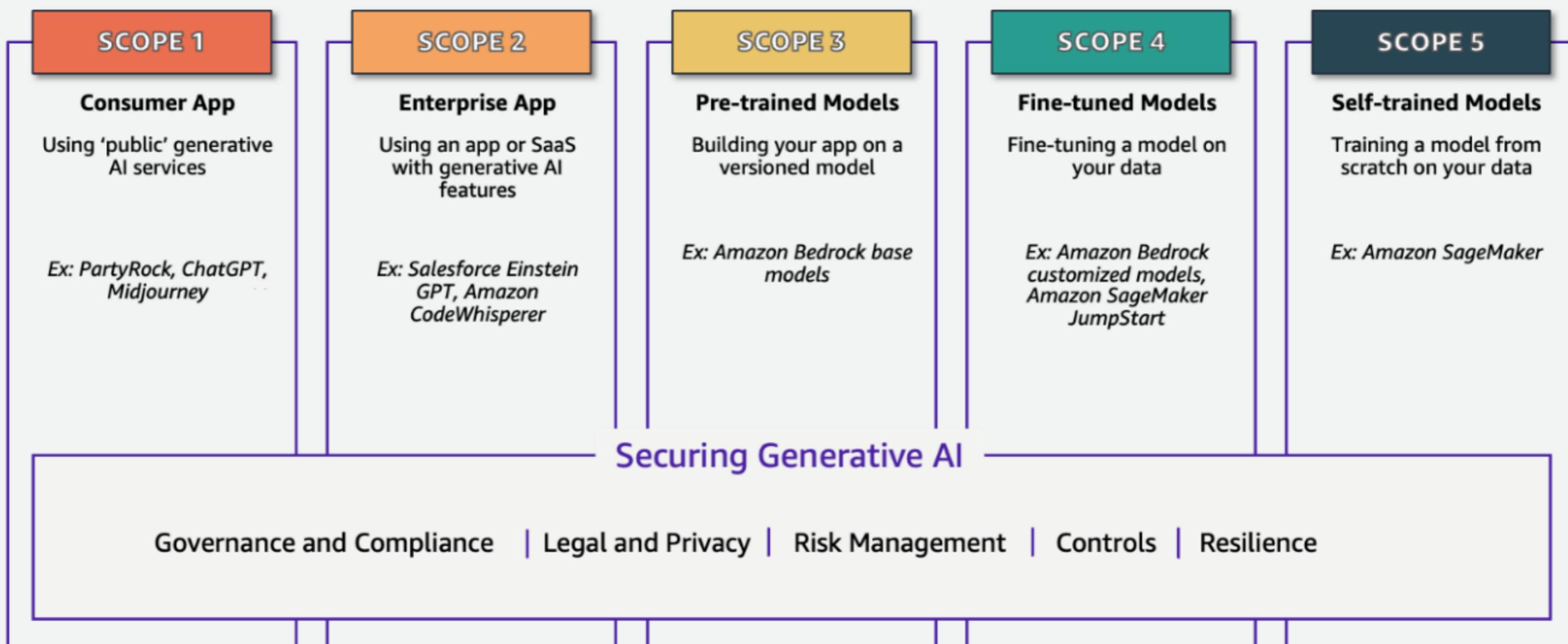
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Secure GenAI

Generative AI Security Scoping Matrix

A MENTAL MODEL TO CLASSIFY USE CASES



<https://aws.amazon.com/blogs/security/securing-generative-ai-data-compliance-and-privacy-considerations/>



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National AI Policies & Strategies

The screenshot shows the homepage of the OECD.AI Policy Observatory. The top navigation bar includes links for Blog, Experts, AI Principles, Policy areas, Trends, and a search bar. Below the navigation is a breadcrumb trail: Home > National strategies & policies. A large teal header banner reads "National AI policies & strategies". A descriptive text below the banner states: "This section provides a live repository of over 1000 AI policy initiatives from 69 countries, territories and the group targeted by the policy." A grid of country and territory logos and names is displayed, categorized into three columns: Countries & territories, Policy instruments, and Target Groups.

Countries & territories	Policy instruments	Target Groups
African Union	Costa Rica	Iceland
Argentina	Croatia	India
		Luxembourg
		Malta

<https://oecd.ai/en/dashboards/overview>



Q/A

