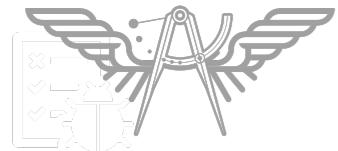




AI for Technical Team





Page

Messages

Notifications 3

Insights

Publishing Tools

Settings

Help ▾



somkiat.cc

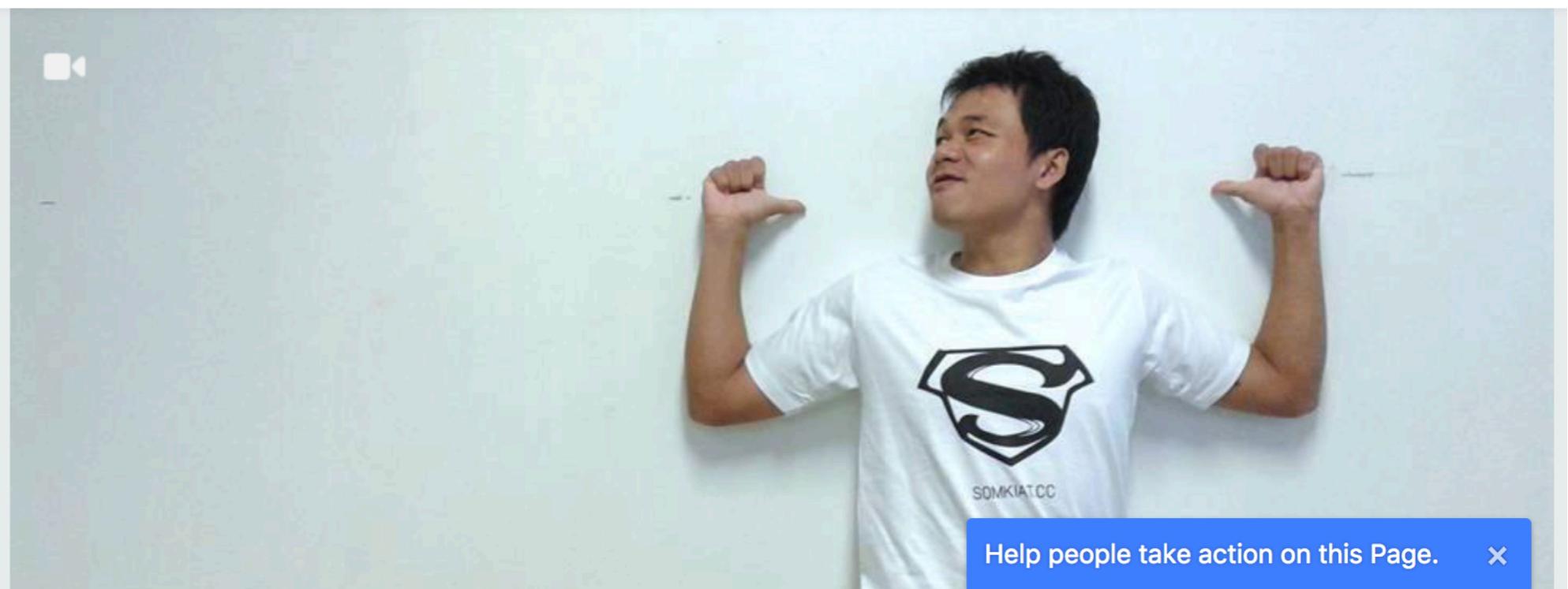
@somkiat.cc

Home

Posts

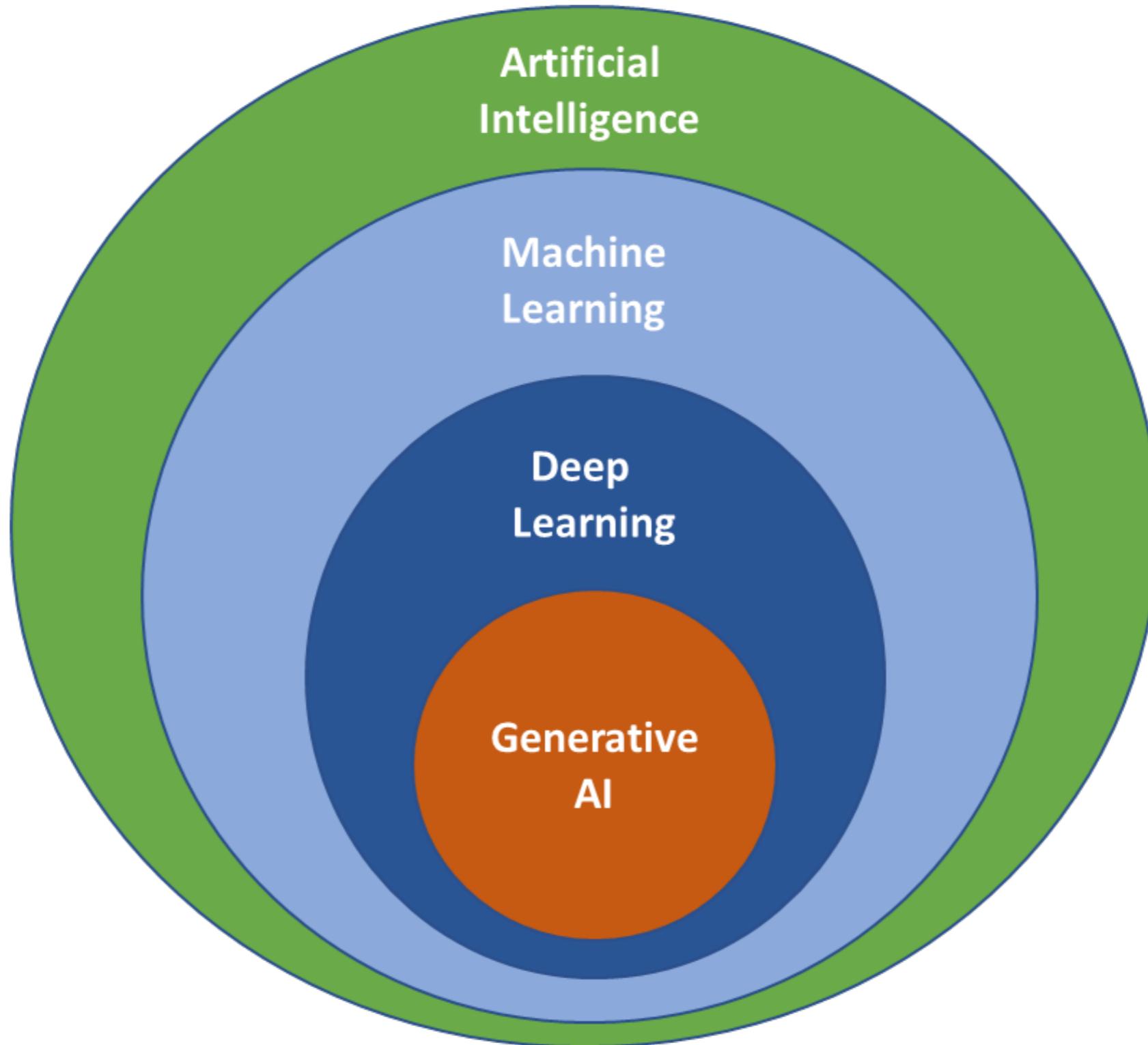
Videos

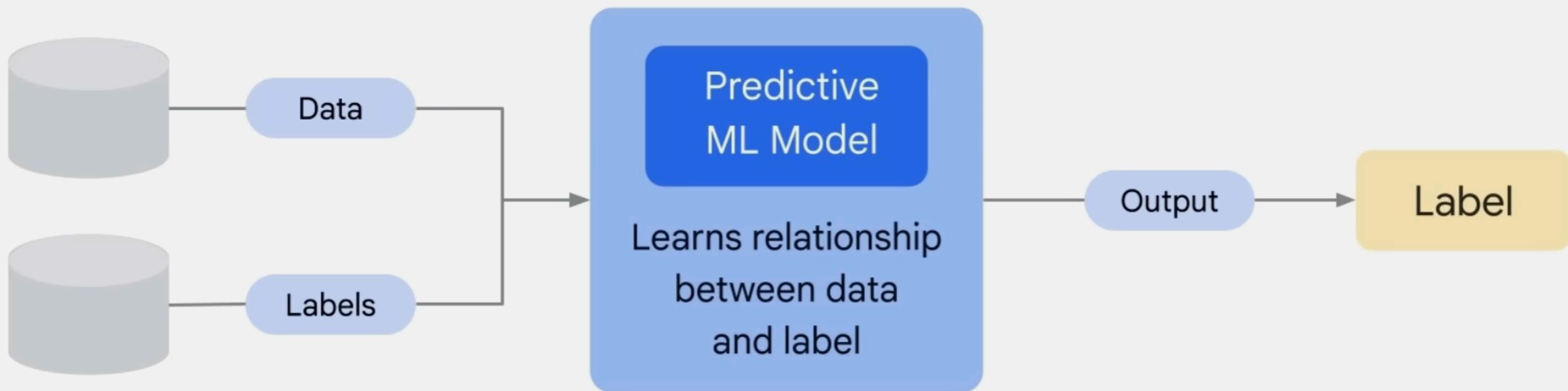
Photos



Generative AI







Discriminative
technique



Classify

Discriminative model
(classify as a dog or a cat)



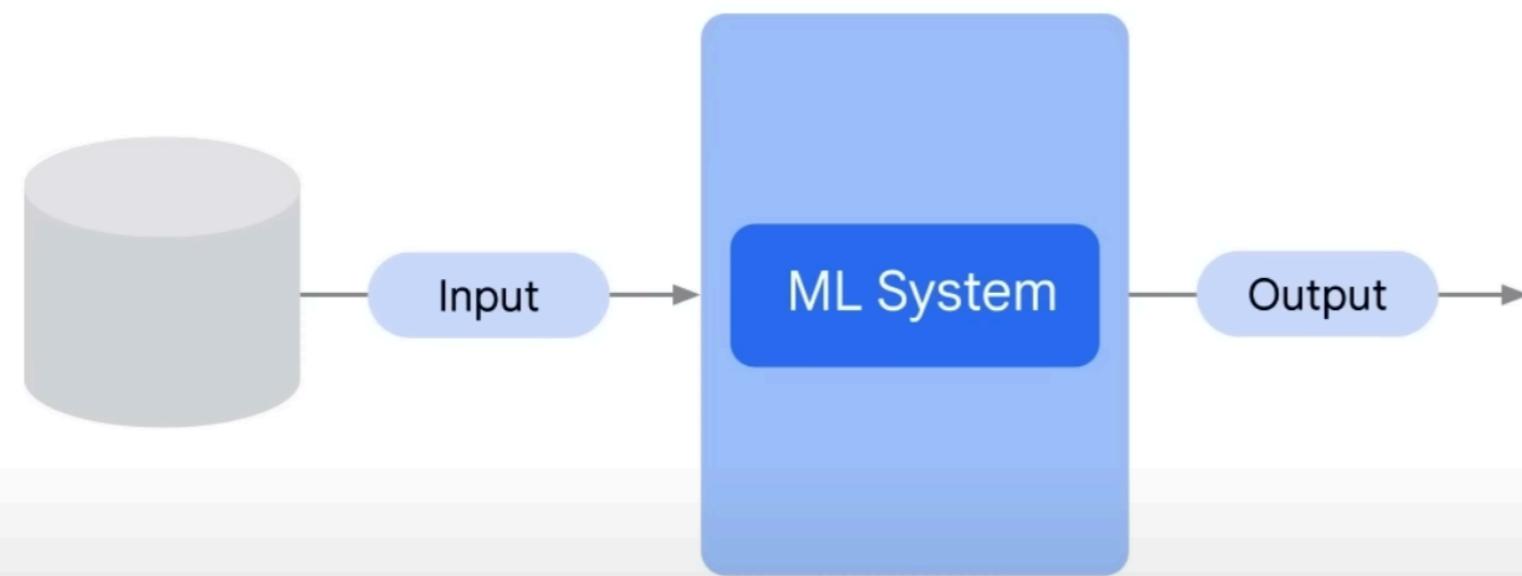
Generative
technique



Generate

Generative model
(generate dog image)





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



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

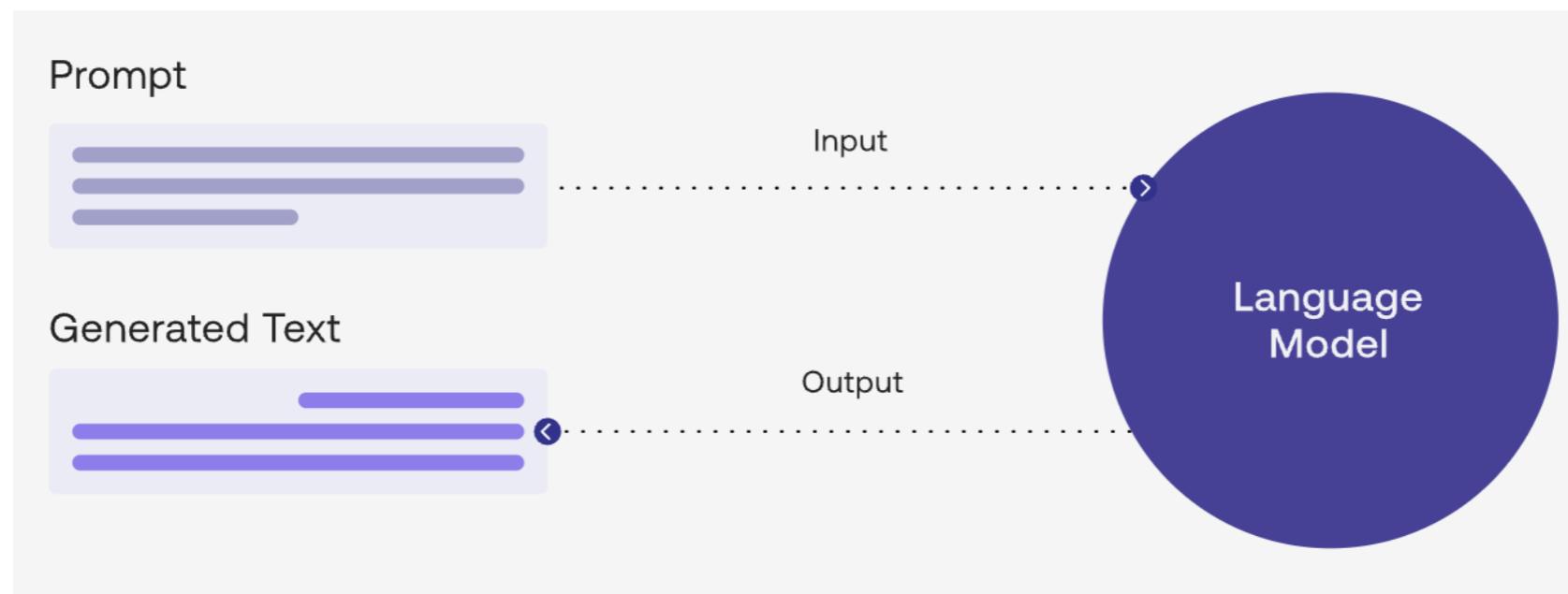
In-line assistance (typing in code editor)

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 ...

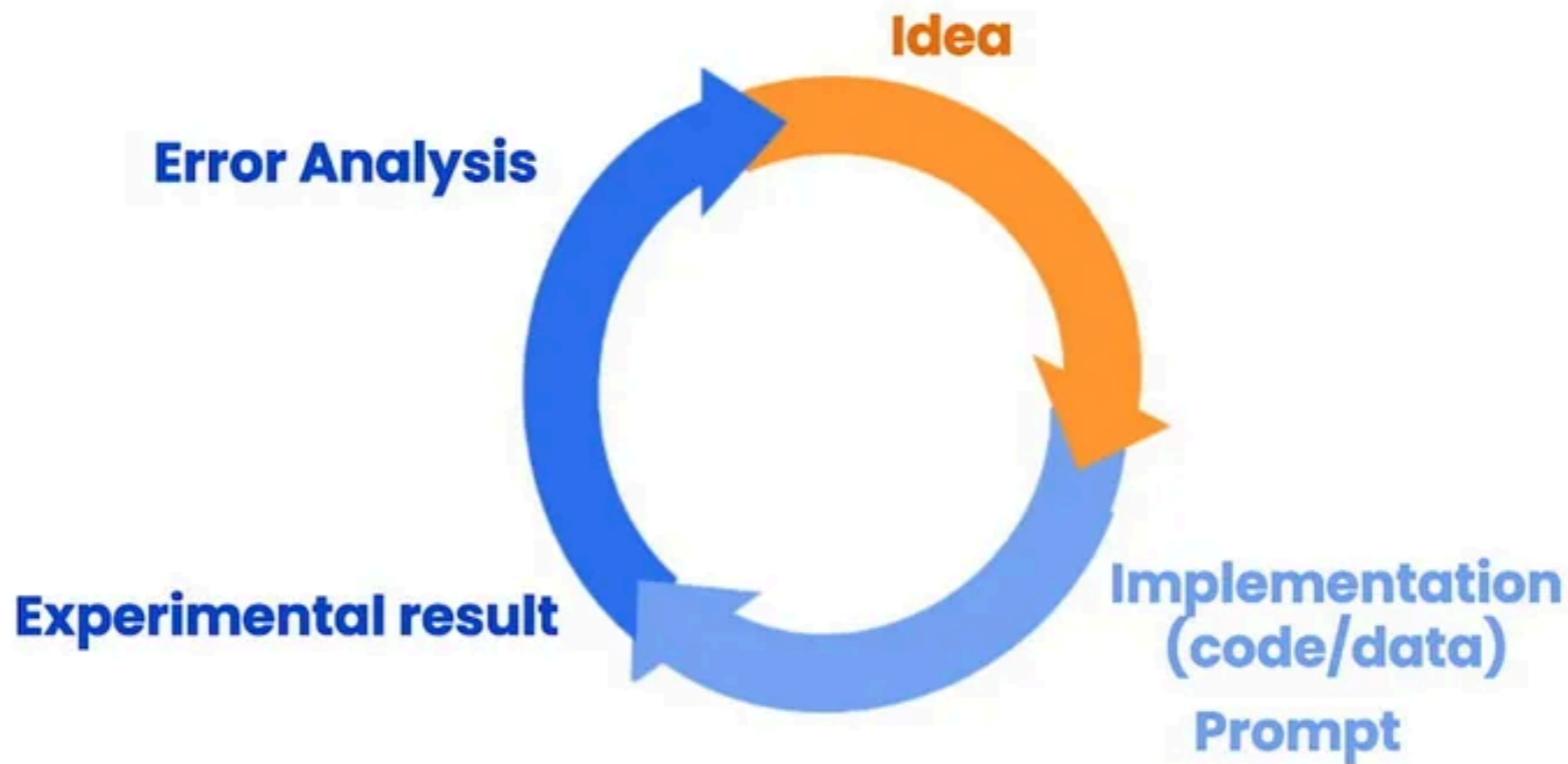
<https://platform.openai.com/docs/guides/prompt-engineering>



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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



Bard

vs



CHAT-GPT

vs



BingAI



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 black knot or swirl pattern. Below it is the question "How can I help you today?". At the bottom is a large input field with the placeholder "Message ChatGPT...". Above the input field are four smaller rectangular boxes, each containing a suggested prompt: "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 very bottom of the interface, a small note reads "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/>



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Google Bard

Bard Experiment

See the latest updates to the [Privacy Help Hub](#)

+ New chat

Hi, I'm Bard

Tell me what's on your mind, or pick a suggestion.

Understand

- historical empire
- economic concepts
- tourist trek

Create

- design a schema
- language study plan
- packing list

Explore

- plant-based meal options
- food hotspots
- birthday party ideas

Enter a prompt here

Bangkok, Thailand
From your IP address • Update location

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

<https://bard.google.com/chat>



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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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>



Hugging Face

The screenshot shows the Hugging Face homepage. At the top left is the "Hugging Face" logo with a yellow smiley face icon. To its right is a search bar with the placeholder "Search models, datasets, users...". The top navigation bar includes links for "Models", "Datasets", "Spaces", "Docs", "Solutions", "Pricing", and user account options ("Log In" and "Sign Up"). Below the header, a large yellow smiley face icon is positioned next to the text "The AI community building the future.". A sub-headline below states: "The platform where the machine learning community collaborates on models, datasets, and applications." On the right side, there's a sidebar with categories like "Tasks", "Libraries", "Datasets", "Languages", "Licenses", and "Other". Under "Tasks", sections include "Multimodal" (Text-to-Image, Image-to-Text, Text-to-Video, Visual Question Answering), "Computer Vision" (Depth Estimation, Image Classification, Object Detection, Image Segmentation, Image-to-Image, Unconditional Image Generation, Video Classification, Zero-Shot Image Classification), "Natural Language Processing" (Text Classification, Token Classification, Table Question Answering, Question Answering, Zero-Shot Classification, Translation, Summarization, Conversational, Text Generation, Text2Text Generation, Sentence Similarity), "Audio" (Text-to-Speech, Automatic Speech Recognition, Audio-to-Audio, Audio Classification, Voice Activity Detection), and "Tabular". To the right of the sidebar, a list of "Models" is displayed, showing entries such as "meta-llama/Llama-2-70b", "stabilityai/stable-diffusion-xl-base-0.9", "openchat/openchat", "illyasviel/ControlNet-v1-1", "cerspense/zeroscope_v2_XL", "meta-llama/Llama-2-13b", "tiiuae/falcon-40b-instruct", "WizardLM/WizardCoder-15B-V1.0", "CompVis/stable-diffusion-v1-4", and "stabilityai/stable-diffusion-2-1". Each model entry includes a thumbnail, name, description, update time, and a star count.

<https://huggingface.co/>



Mid Journey

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



Canva

The screenshot shows the Canva interface. On the left, the 'Magic Media' sidebar is open, showing options for 'Images' (selected), 'Videos', 'Design', 'Brand', 'Elements', 'Text', 'Uploads', 'Styles', and 'Apps'. Under 'Styles', there are three options: 'None', 'Filmic' (showing a dog in a car window), and 'Watercolor' (showing a puppy). A purple callout bubble labeled 'Charlie' points to the '+' button in the 'Images' section. Below the sidebar is a purple button labeled 'Generate AI Images'.

Magic Media

Images Videos

Describe the image you want and we'll generate it for you.

Blue and green space rover lost in a strange planet

Try an example + Charlie

Styles See all

None Filmic Watercolor

Generate AI Images

Storyboard

1 Day • Establishing Shot • Pan

Action: Opening shot of the barren, red Martian landscape. We hear the sound of a rover approaching. Cut to the inside

Add sandstorm CGI in post prod Sam APPROVED BY DIRECTOR Vin

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



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FigJam AI



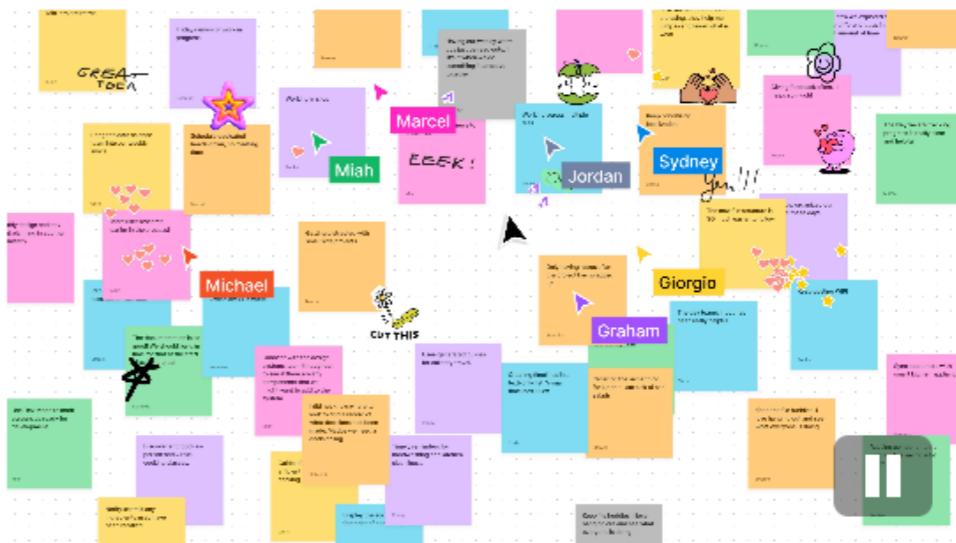
Products ▾ Enterprise ▾ Pricing Resources ▾ Community ▾ Contact sales Log in

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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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

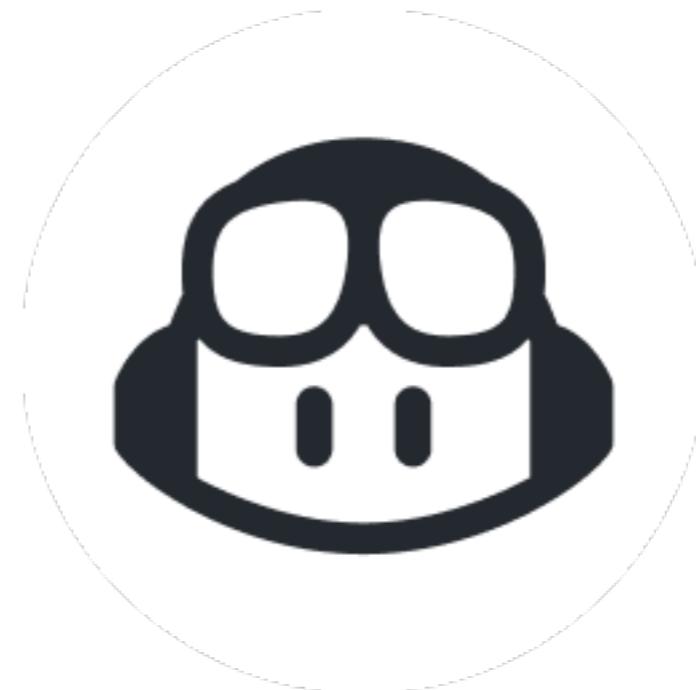
<https://deepfakesweb.com/>



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Demo



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



Using GitHub Copilot Chat correlates with better code quality

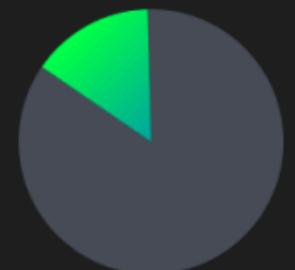
85% of developers felt more confident in their code quality when authoring code with GitHub Copilot and GitHub Copilot Chat

85%



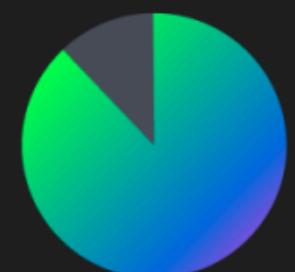
Code reviews were more actionable and completed 15% faster than without GitHub Copilot Chat

15%



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

88%



Assist tasks



User Story Generator



Product ▾ Solutions ▾ Learn ▾ Tools ▾ Pricing

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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 design tools. Below the toolbar, the main content area displays a user story template:

Wishlist Addition

- As a registered user,
- I want to be able to add items to my wishlist,
- So that I can save items I'm interested in for later purchase.

Acceptance Criteria

- Given that I am a registered user, when I view a product, then I should see an "Add to Wishlist" button.
- Given that I click the "Add to Wishlist" button, the product should be added to my wishlist.
- Given that a product is in my wishlist, when I visit my wishlist page, then I should see all the products I've added.
- Given that a product is in my wishlist, when I click on the product, then I should be taken to that product's page.
- Given that a product is in my wishlist, I should have an option to remove it from my wishlist.

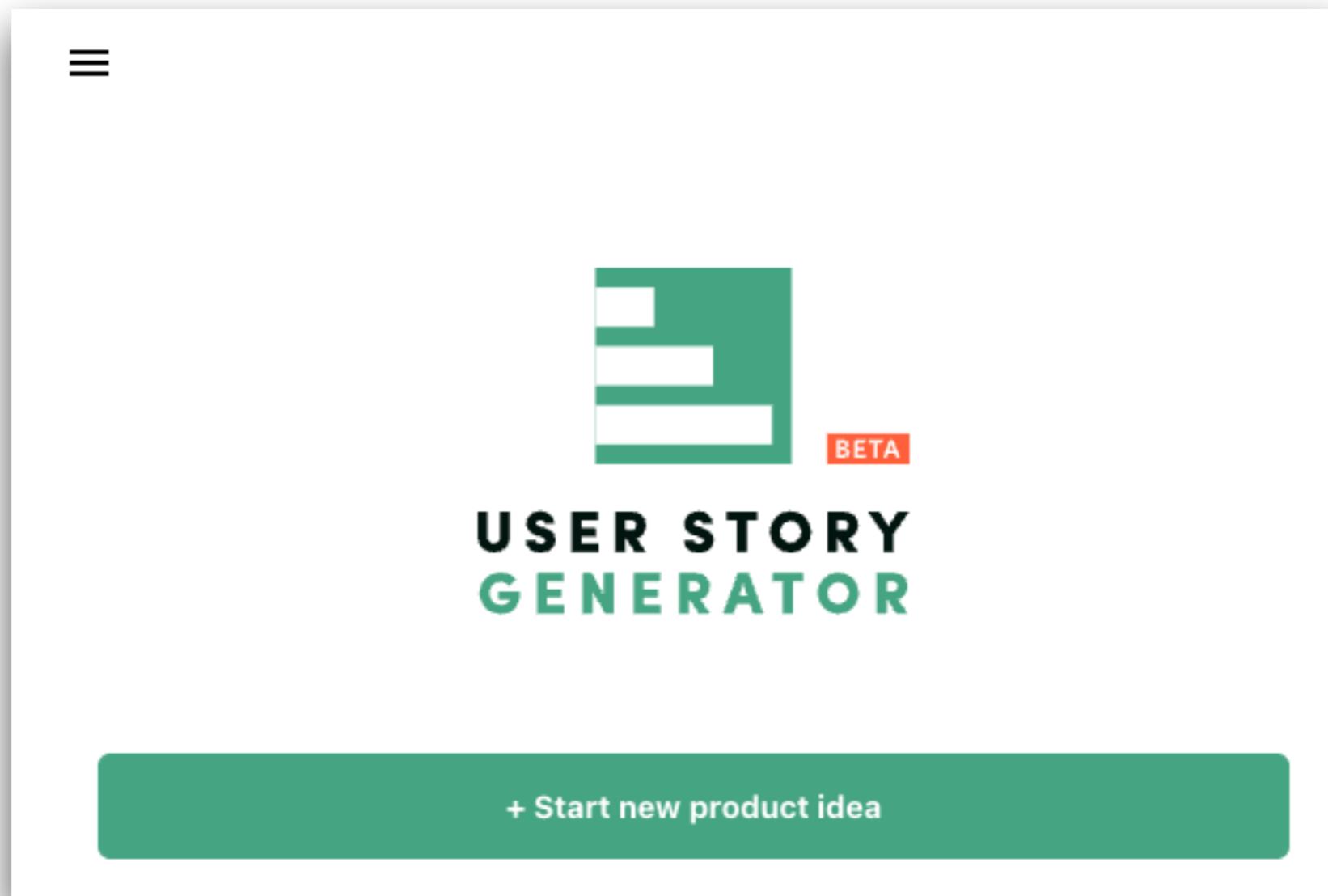
<https://www.taskade.com/generate/project-management/agile-user-story>



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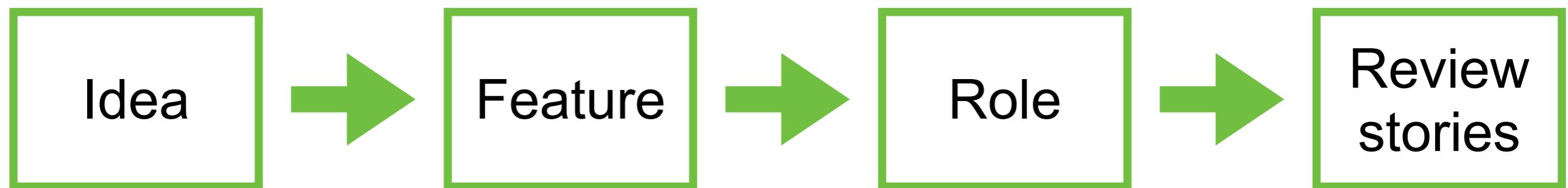
User Story Generator



<https://userstorygenerator.ai/>



User Story Generator



<https://userstorygenerator.ai/>



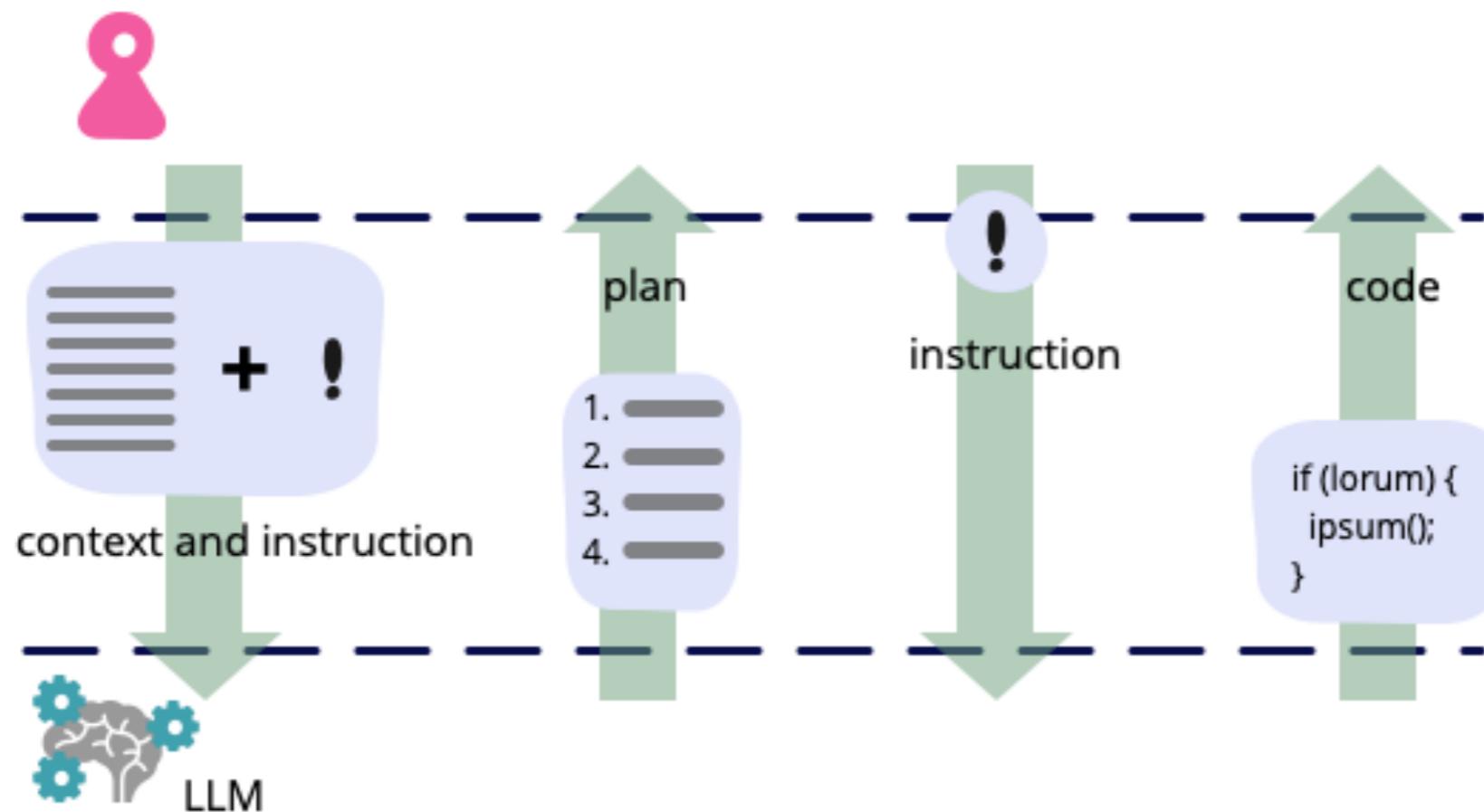
Notion AI Template

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 new product review feature	As a customer, I want to be able to leave a rating for a product.	* A user must be able to leave a rating for a product.	* The product review feature should be...	Critical	Critical	5

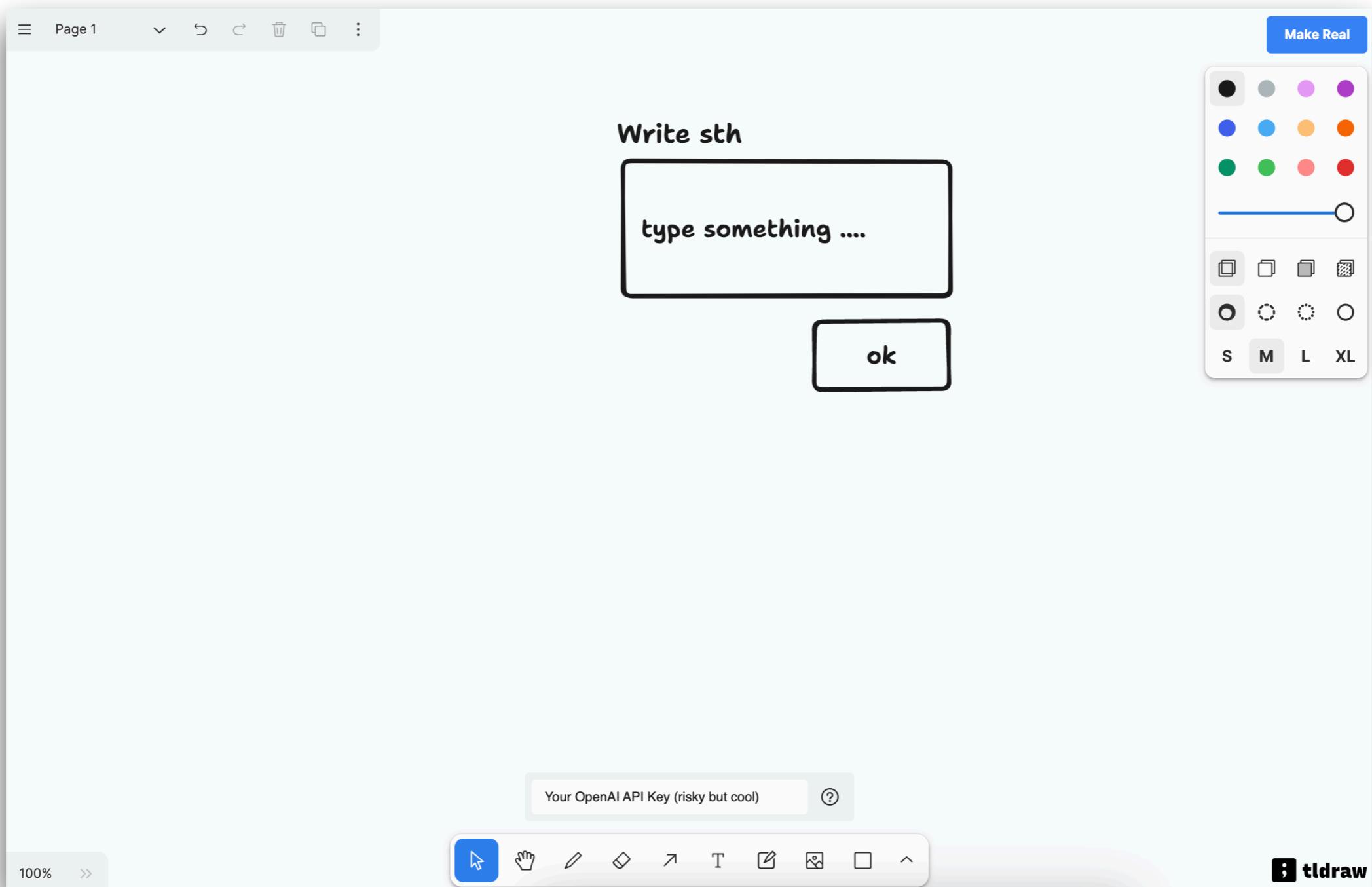
<https://www.notion.so/templates/user-story-writer-ai-powered-notion-template>



Development



Make Real



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



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v0.dev

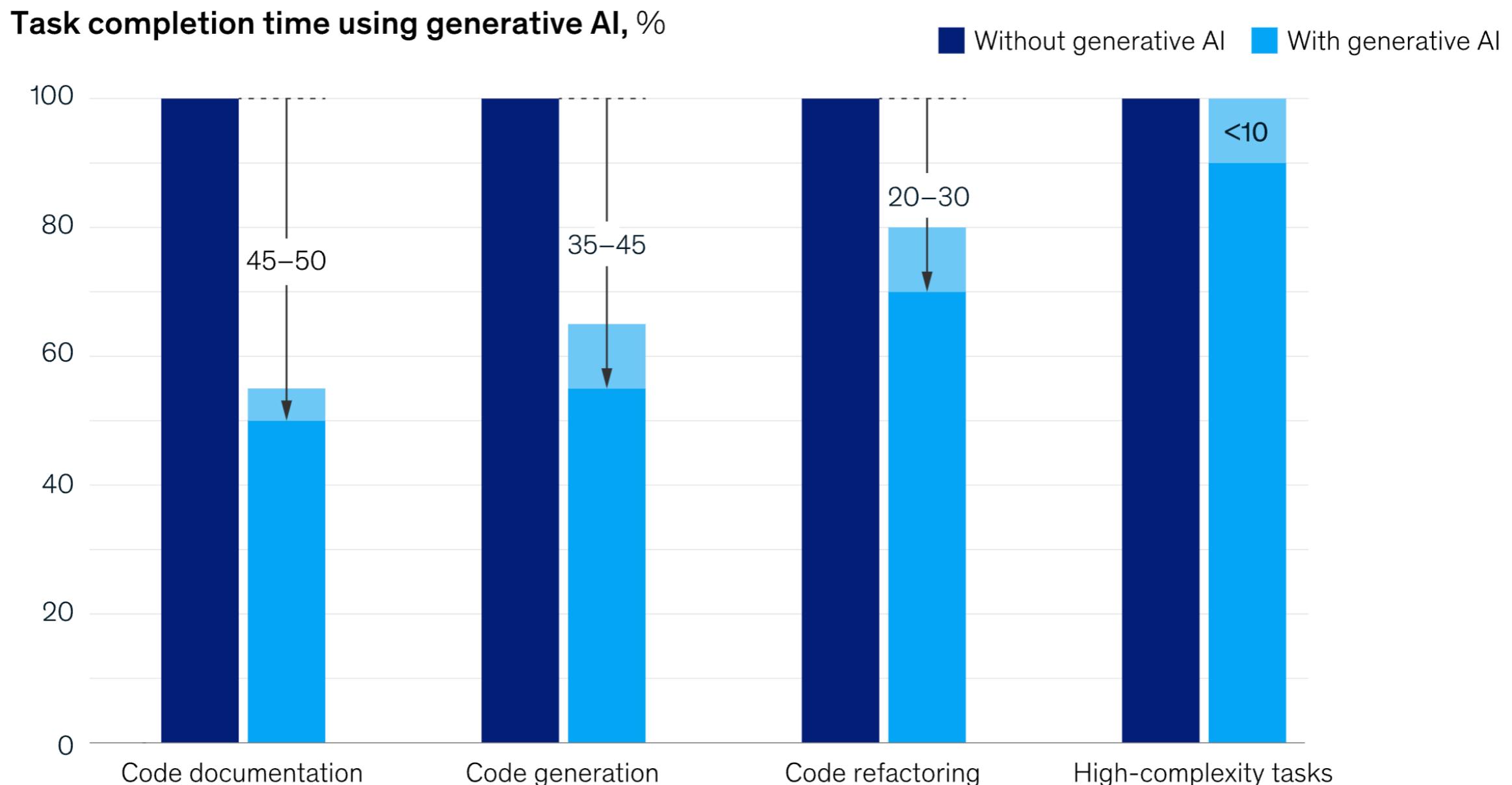
The screenshot displays the v0.dev platform's interface, featuring a top navigation bar with a logo, a "Private Beta" button, and a search bar containing the placeholder "A 'report an issue' modal". Below the search bar are four circular buttons labeled "Product categories ↗", "Hero section ↗", "Contact 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/>



Development

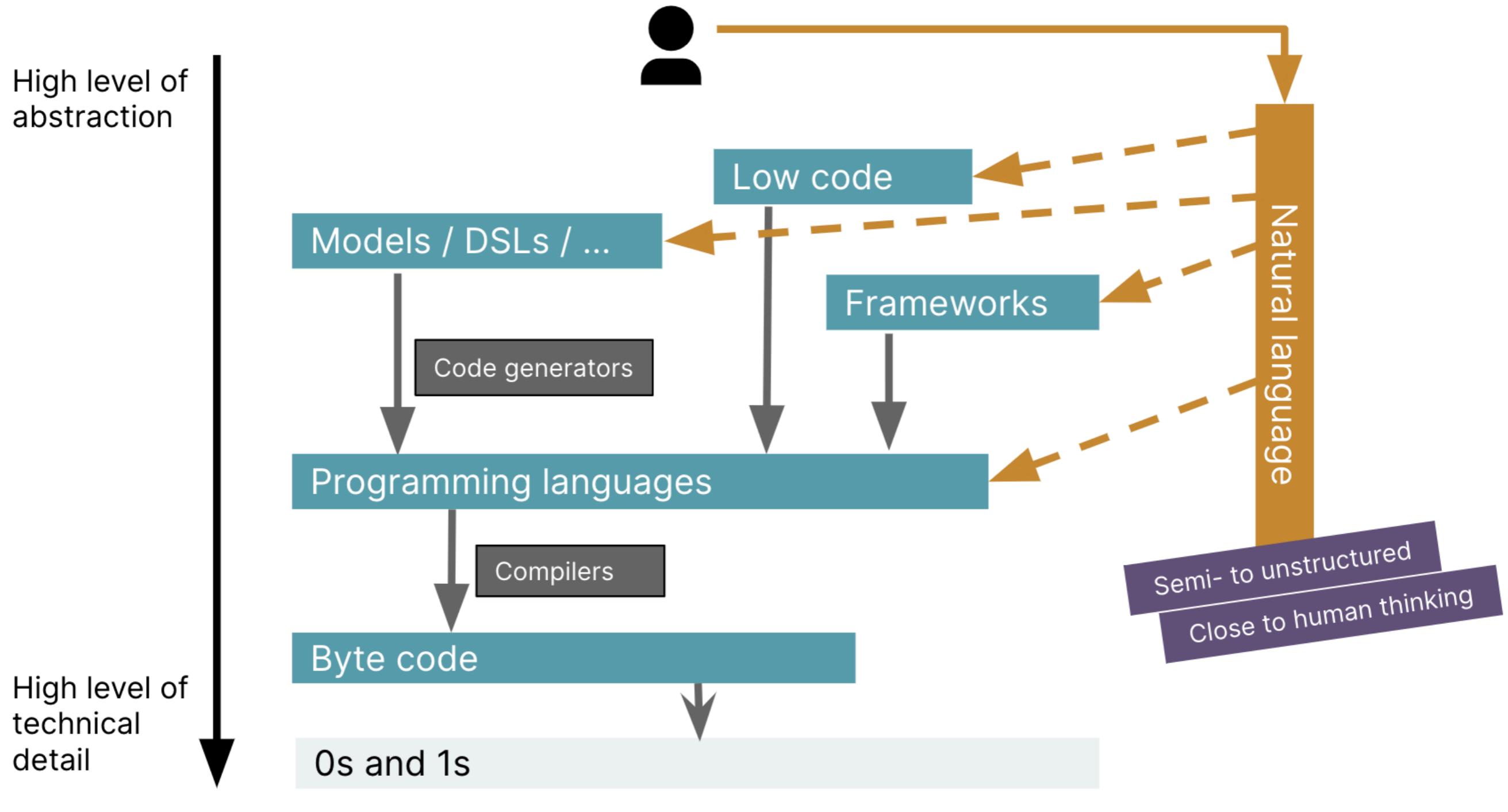
Generative AI can increase developer speed, but less so for complex tasks.



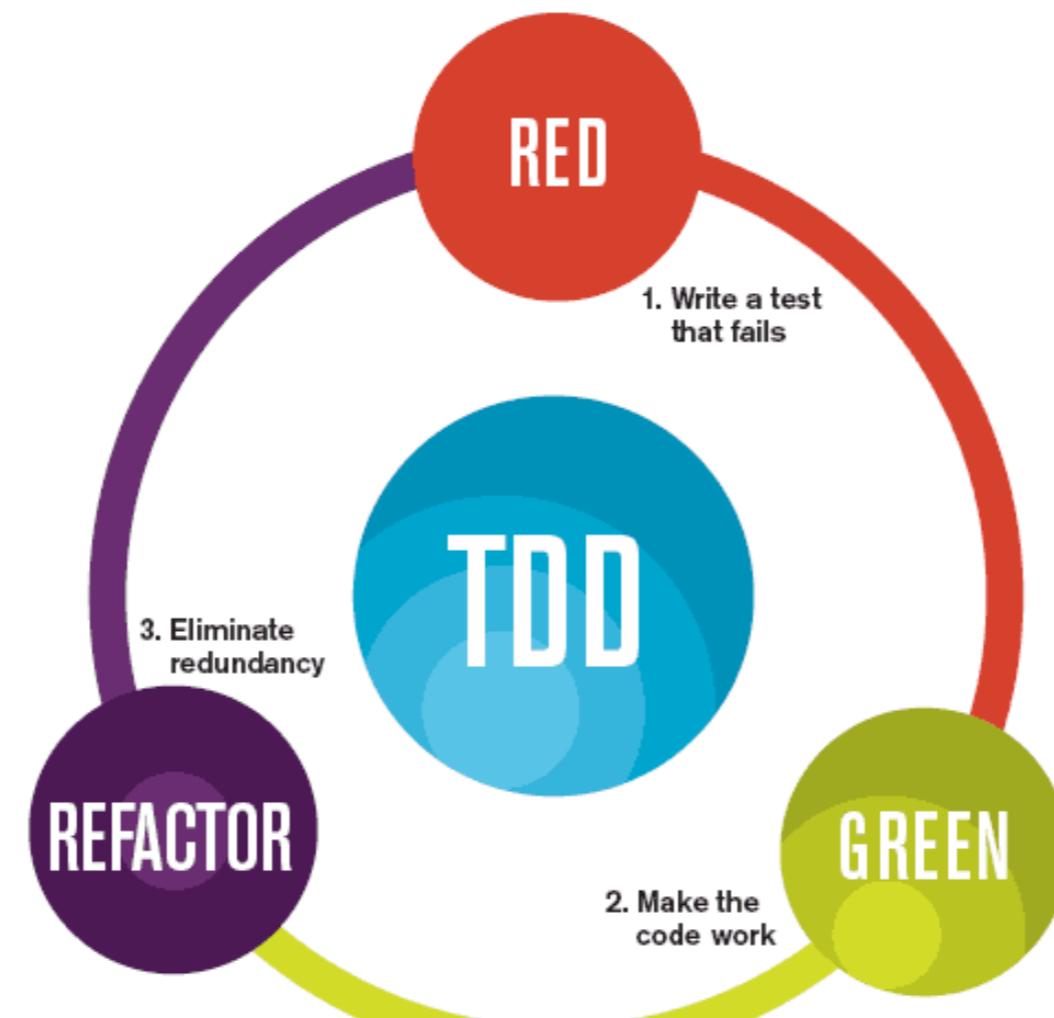
<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/unleashing-developer-productivity-with-generative-ai>



Development



TDD



Tips

Understand what you want

Modular approach

Clear and Precise inputs

Make sure you understand the code

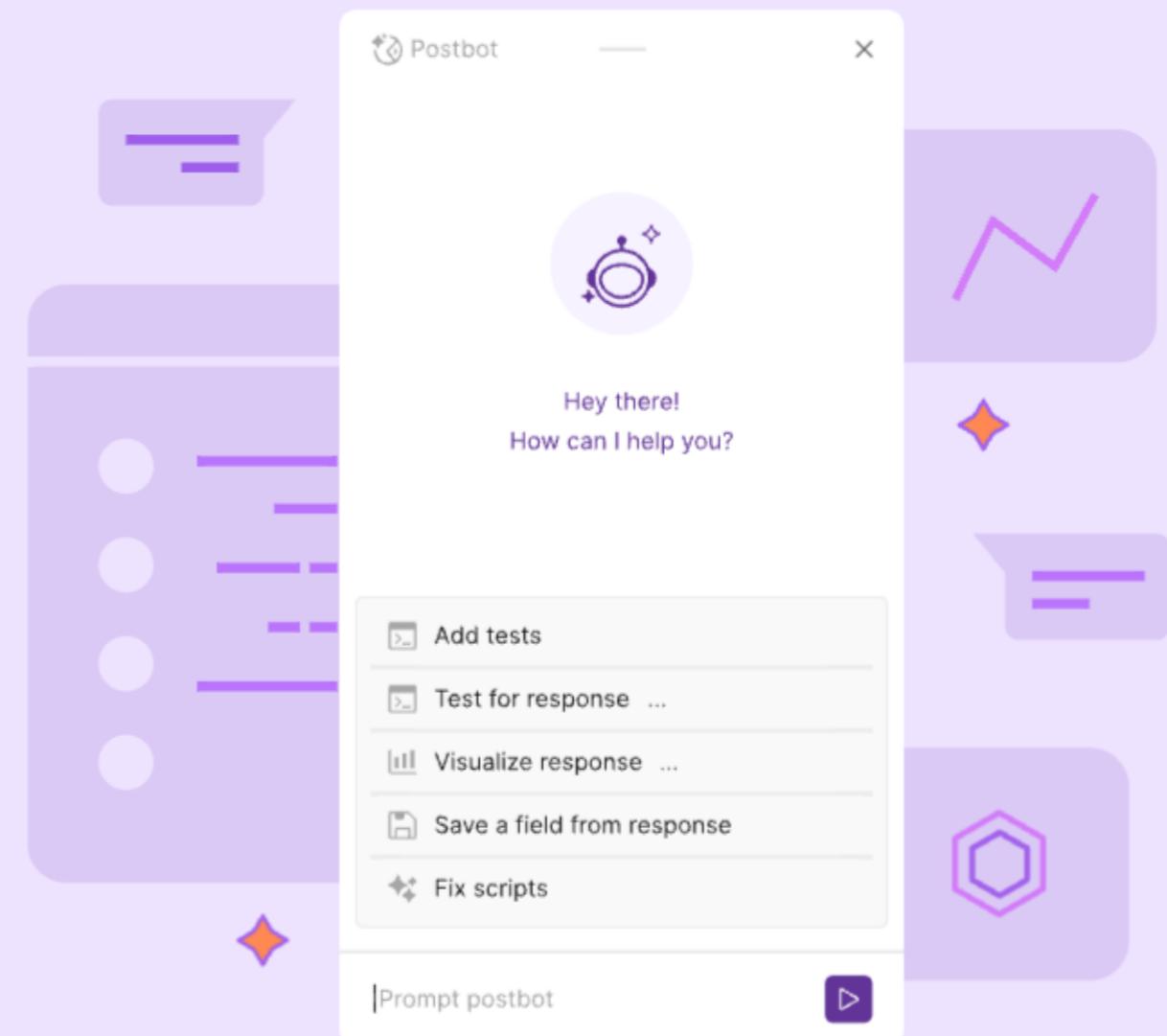


Testing with Postman

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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Sharing

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 displayed, containing a "New on Postbot" section with text about auto-complete tests and a "Hi! How can I help?" input field.

The main workspace shows a "New Request" screen 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 response, there are buttons for Body, Cookies, Headers (25), Test Results, and a status indicator showing 200 OK. There are also tabs for Pretty, Raw, Preview, Visualize, and JSON.

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



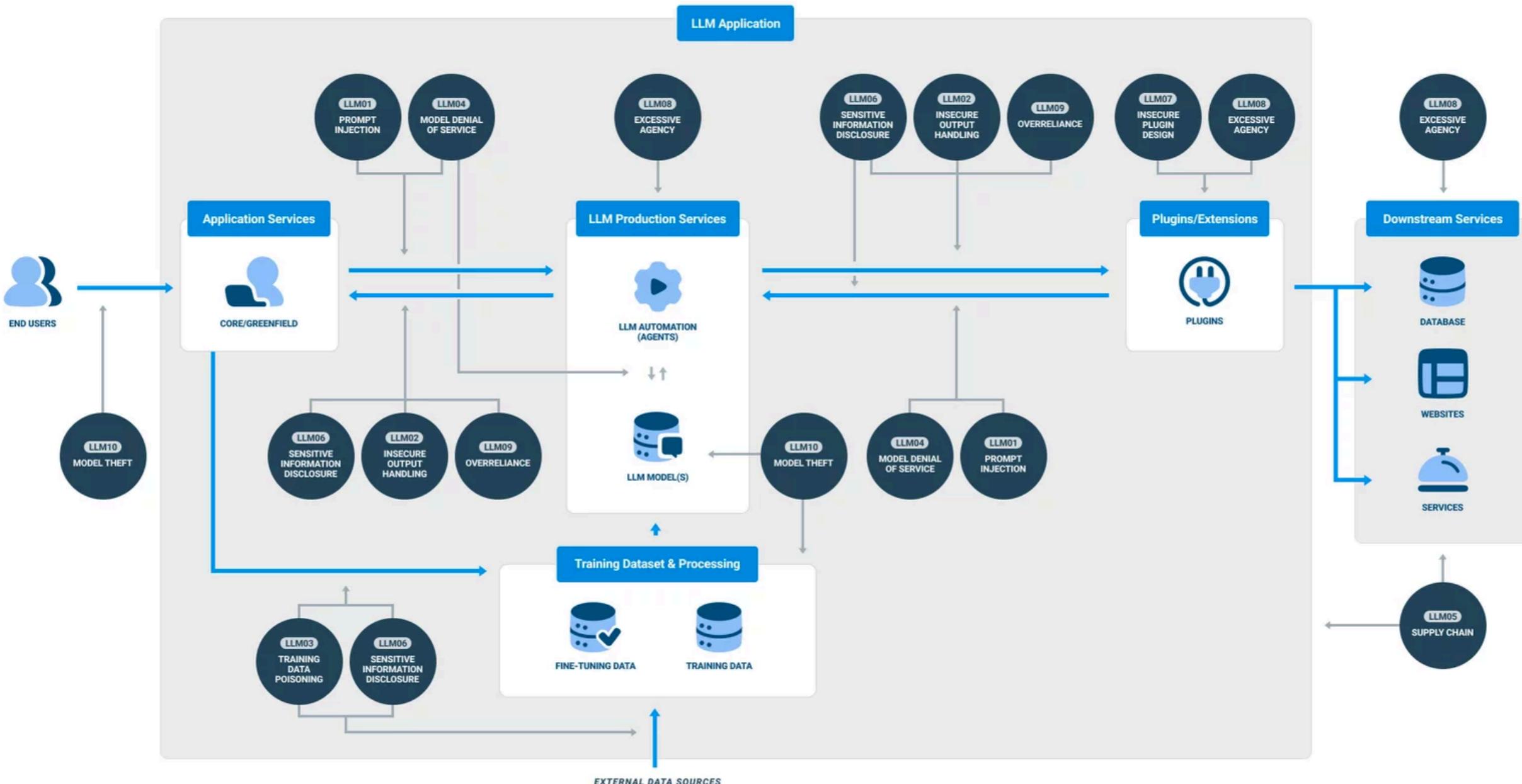
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Security !!



OWASP Top 10 for LLM app



<https://llmtop10.com/>



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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/>



Q/A

