



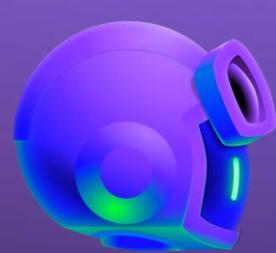
Welcome to GitHub!

We are excited to host you in our Bellevue Hub this evening.



Dave Burnison
Senior DevOps Advocate





Bellevue Hub Code of Conduct

- Keep it clean!
 - When in doubt, throw it out (in the trash)!
- Need something?
 - Ask a Community Manager or GitHub Employee!
- See questionable behavior?
 - Please notify a Community Manager or GitHub Employee!
 - e.g. Attendees wandering into restricted areas



Enjoy Tonight's Event!



What's New With GitHub Copilot & GitHub Models

Accelerating Developer Productivity with AI

Dave Burnison
Senior DevOps Advocate
GitHub



GitHub Copilot for skeptics who still think AI is Overrated

Burke Holland | Microsoft
Damian Brady | GitHub

Session Code: BRK124

<https://build.microsoft.com/sessions/BRK124>





Mar 14

my saas was built with



zero hand written code

∅ ...

AI is no longer just an assistant, it's also the builder

Now, you can continue to whine about it or start building.

P.S. Yes, people pay for it

81

46

620

97K

Bookmark Up

**3 Days
Later**



∅ ...

guys, i'm under attack

ever since I started to share how I built my SaaS using [REDACTED]

random thing are happening, maxed out usage on api keys, people bypassing the subscription, creating random [REDACTED] on db

as you know, I'm not technical so this is taking me longer than usual to figure out

for now, I will stop sharing what I do publicly on X

there are just some weird ppl out there

4:04 AM · Mar 17, 2025 · 2.2M Views

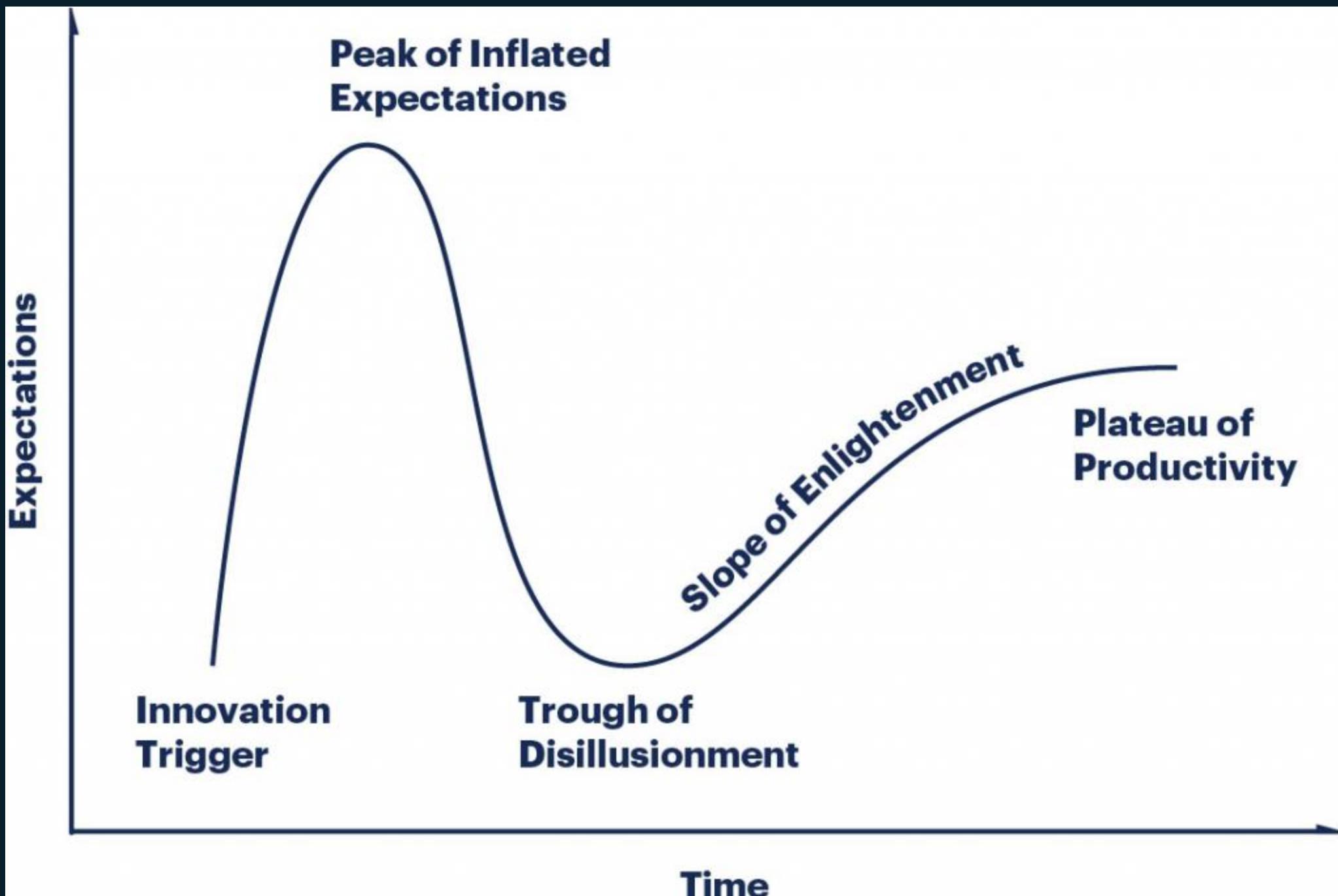
643

1K

6.3K

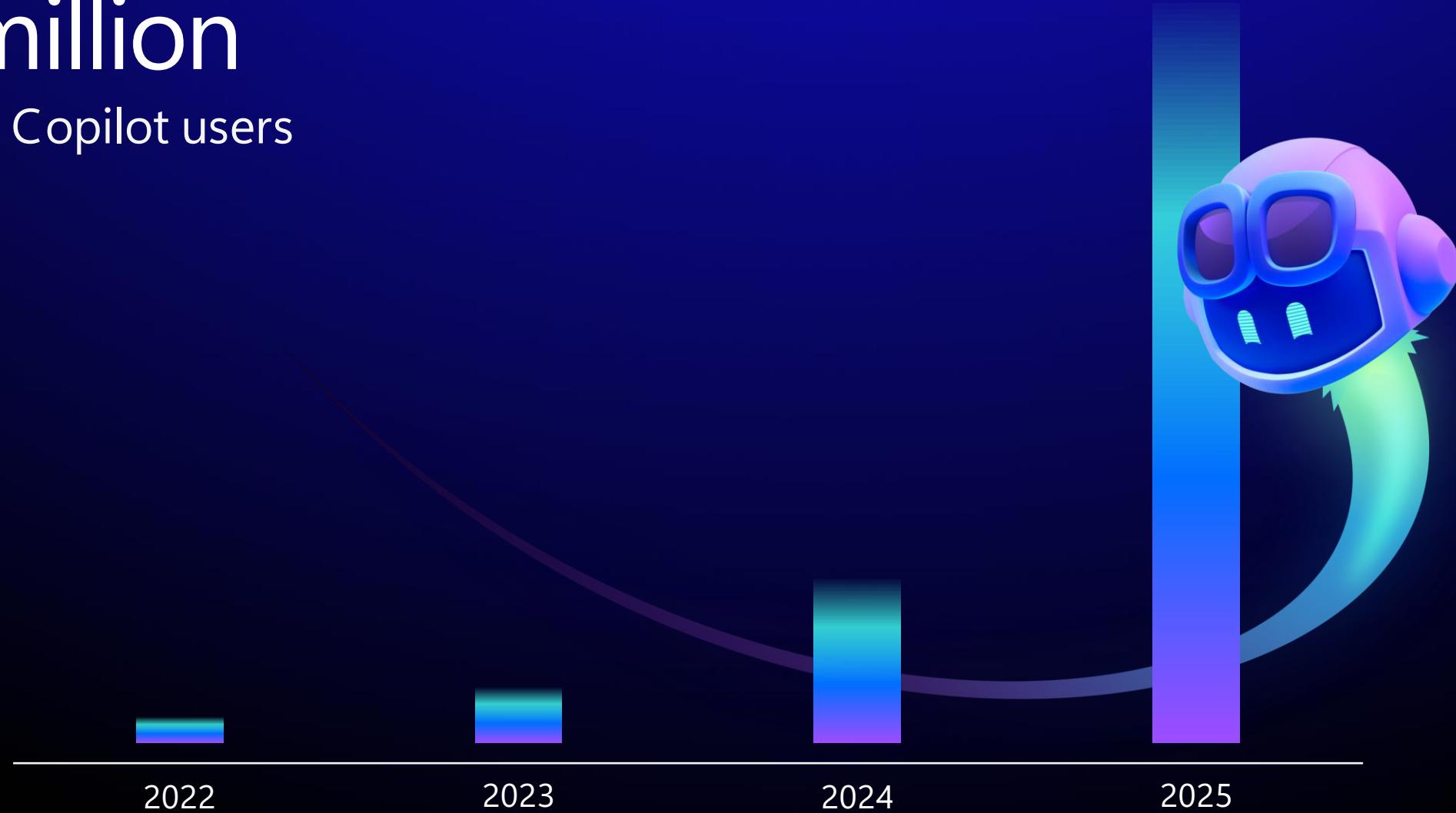
3.8K



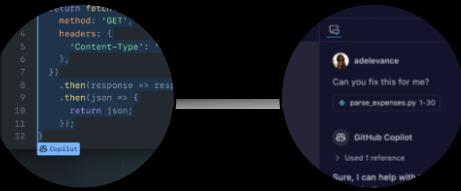


15 million

GitHub Copilot users

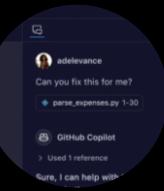


Evolution of GitHub Copilot



Jun 2021

Code completions



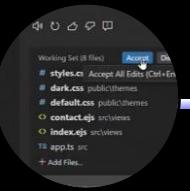
Mar 2023

Chat



Nov 2023

Workspace



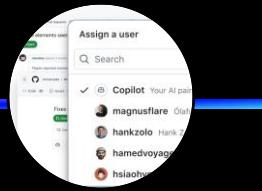
Oct 2024

Multi-file edits



Feb 2025

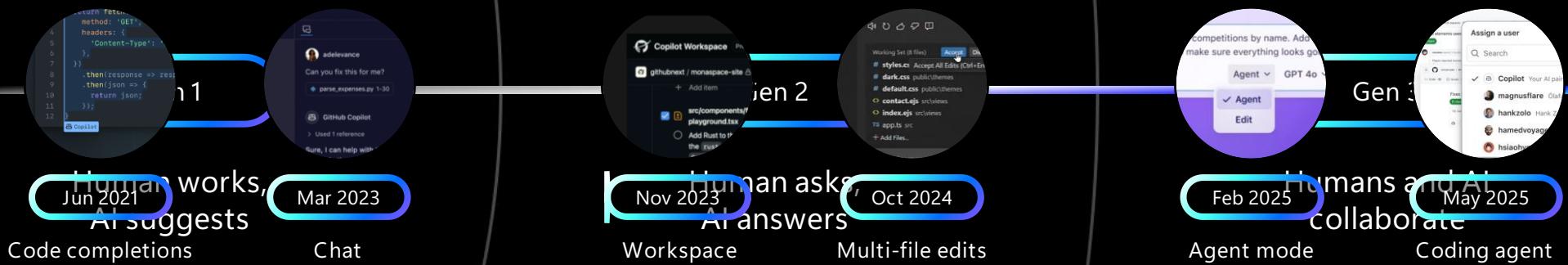
Agent mode

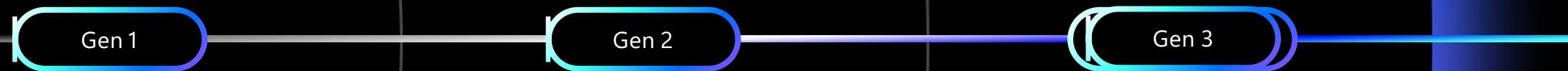


May 2025

Coding agent

Evolution of agentic workflows





Human works,
AI suggests

Human asks,
AI answers

Humans and AI
collaborate

Agentic DevOps

AI-powered agents operating as a member of your dev team to automate, optimize, and accelerate every stage of the software development lifecycle.



Agent mode

Iterate securely, automatically.
Here, there, and everywhere

📎 or type # to attach context

Working Set



+ Add Files...

Edit files in your workspace

📎 🔇

Edit ▾ Claude 3.5 Sonnet (Preview) ▾ ➔

Agent ✓ Edit

🔍 Go Live 📺 📲

This screenshot shows a workspace interface. At the top, there's a header with the text "Edit files in your workspace". Below the header are two small icons: a paperclip and a microphone. To the right of these are three main buttons: "Edit" with a dropdown arrow, "Claude 3.5 Sonnet (Preview)" with a dropdown arrow, and a "Go Live" button with a camera icon. A mouse cursor is hovering over the "Edit" button. A blue bar at the bottom contains several icons: a magnifying glass, a person icon, a "Go Live" button, a grid icon, and a bell icon. The overall background is dark, and the workspace title is partially visible above the main content area.

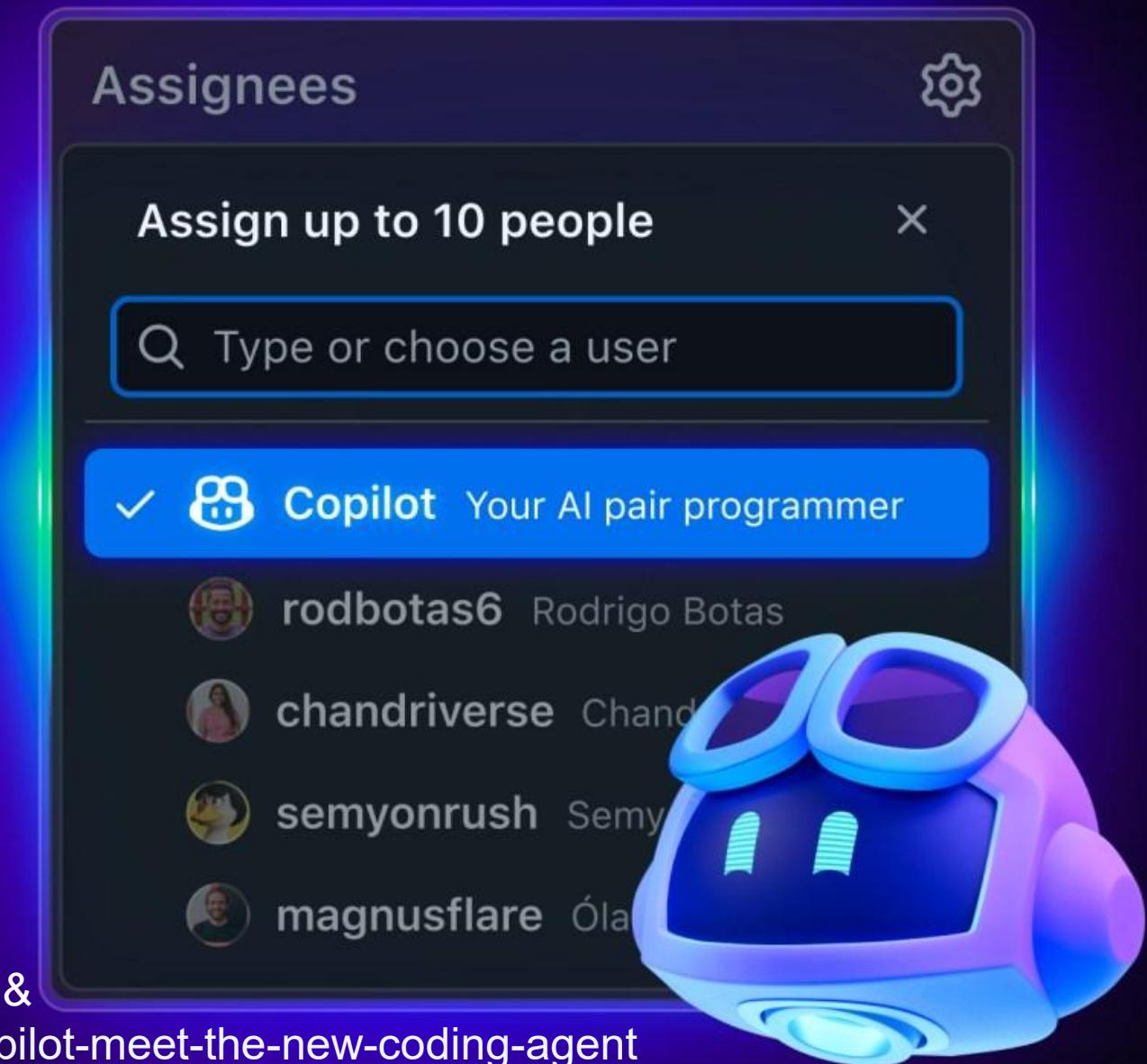
<https://youtu.be/pRihTxpipZ0?si=sj8xQLsc7J-iV5pO>

GitHub Copilot CODING AGENT

<https://youtu.be/6xHZJVnKkSs?si=Dziuy3FoMfIxPNq>,

<https://youtu.be/GPML5a2jZCY?si=cD0yqM5h36GHR6ko> &

<https://github.blog/news-insights/product-news/github-copilot-meet-the-new-coding-agent>





Customize GitHub Copilot Chat Responses

GitHub Copilot can provide chat responses that are tailored to the way your team works, the tools you use, or the specifics of your project. Instead of repeatedly adding this contextual detail to your chat prompts, you can create files in your repository that automatically add this information for you.

- Repository custom instructions - Specify repository-wide instructions and preferences tailored to the way your team works, the tools you use, or the specifics of your project. [Example Copilot-Instructions.md file](#).
- Prompt files - Build and share reusable prompt instructions with additional context. Common use cases:
 - **Code generation** - Create reusable prompts for components, tests, or migrations.
 - **Domain expertise** - Share specialized knowledge, such as security practices, or compliance checks.
 - **Team collaboration** - Document patterns and guidelines with references to specs and documentation.
 - **Onboarding** - Create step-by-step guides for complex processes or project-specific patterns.
- Personal custom instructions - Receive chat responses that are customized to your personal preferences, across your conversations on the GitHub website. For example, you can choose to always have Copilot Chat respond in a preferred language or with a particular style.
- Organization custom instructions - Organization owners can add instructions for GitHub Copilot Chat in order to tailor chat responses to the needs and preferences of your organization.

Model Context Protocol (MCP)

MCP is an open protocol that streamlines how applications provide context to LLMs. Copilot supports this and will attempt to use those tools.

MCP Settings

```
1  {
2    "mcpServers": {}
3 }
```

We will validate the output before save.

Save



Copilot coding agent

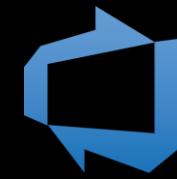
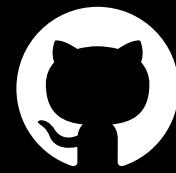


Tips

Configure MCP servers to access additional context

- ✓ Provide Copilot access to more tools
- ✓ Store tokens using environment secrets
- ✓ See tool calls in the session output

<https://docs.github.com/enterprise-cloud@latest/copilot/customizing-copilot/extending-copilot-coding-agent-with-mcp>,
<https://github.com/modelcontextprotocol/servers> & <https://www.youtube.com/watch?v=xZvyEOPPxIY>



Figma

box

The neo4j logo, featuring three white circles of increasing size connected by lines, followed by the word 'neo4j' in a lowercase sans-serif font.

The UiPath logo, featuring the word 'UiPath' in a bold, orange and white sans-serif font, with a small star above the 'i'. Below it, the words 'AGENTIC AUTOMATION' are written in a smaller, all-caps sans-serif font.

Official Integrations: <https://github.com/modelcontextprotocol/servers?tab=readme-ov-file#-third-party-servers>
Community Servers: <https://github.com/modelcontextprotocol/servers?tab=readme-ov-file#-community-servers>



App modernization

Application upgrades and updates simplified with AI

AI assisted app modernization to Azure with hours and days

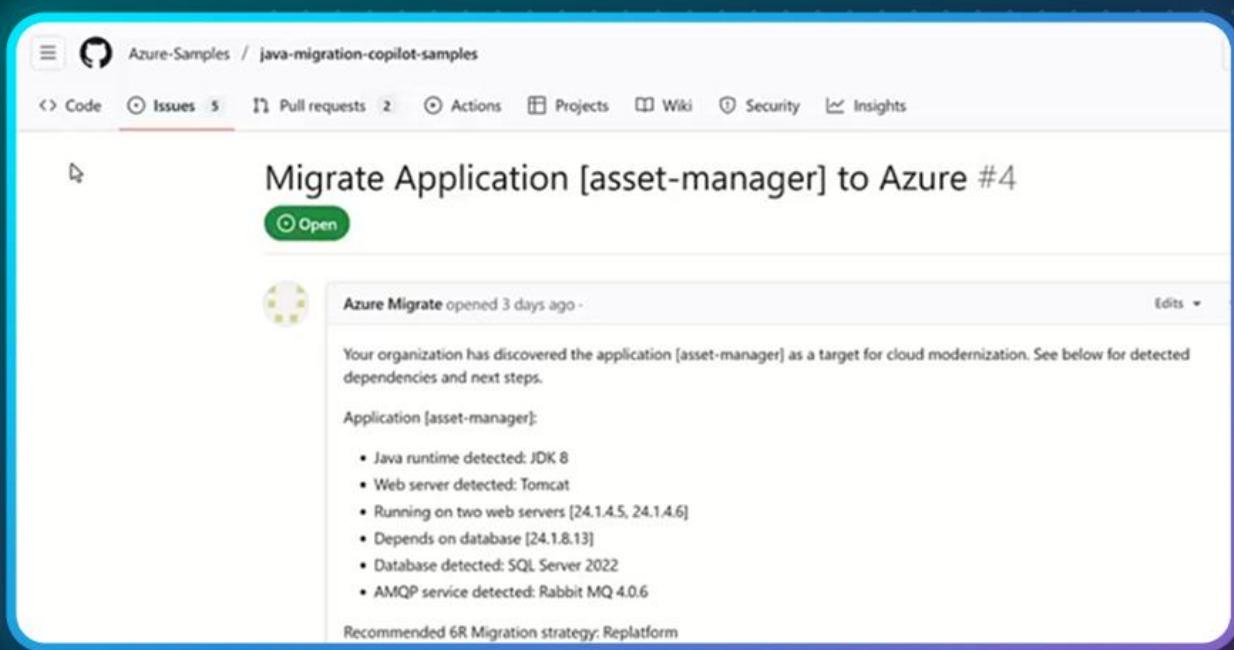
Public Preview

GitHub Copilot app modernization

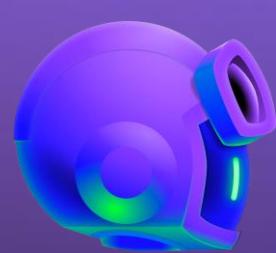
Single entry point for code assessments, dependency updates, and remediation

Generates and executes update plans automatically

Gives you full visibility, control and clear summary of change



<https://techcommunity.microsoft.com/blog/appsonazureblog/reimagining-app-modernization-for-the-era-of-ai/4414793>,
<https://aka.ms/AppModernizationGuidance>, <https://aka.ms/ghcp-appmod/dotnet-upgrade> & <https://aka.ms/ghcp-appmod/java>



GitHub Copilot Resources

- Summary & FAQ: <https://github.com/features/copilot>
- Learning Pathway – GitHub Copilot Essentials:
<https://resources.github.com/learn/pathways/copilot/essentials/essentials-of-github-copilot>
- GitHub Copilot related blog posts: <https://github.blog/tag/github-copilot>
- GitHub Copilot product updates: <https://github.blog/changelog/label/copilot>
- GitHub Copilot Discussions: <https://github.com/orgs/community/discussions/categories/copilot>
- The latest GitHub previews: <https://github.com/features/preview>
- What our research team is working on: <https://githubnext.com>
- GitHub Copilot Playlist on YouTube:
https://www.youtube.com/playlist?list=PL0lo9MOBetEHEHi9h0k_IPn0XZdEeYZDS

GitHub Models

A new generation of AI engineers building on GitHub



GitHub Models

AI development natively embedded in the GitHub workflow

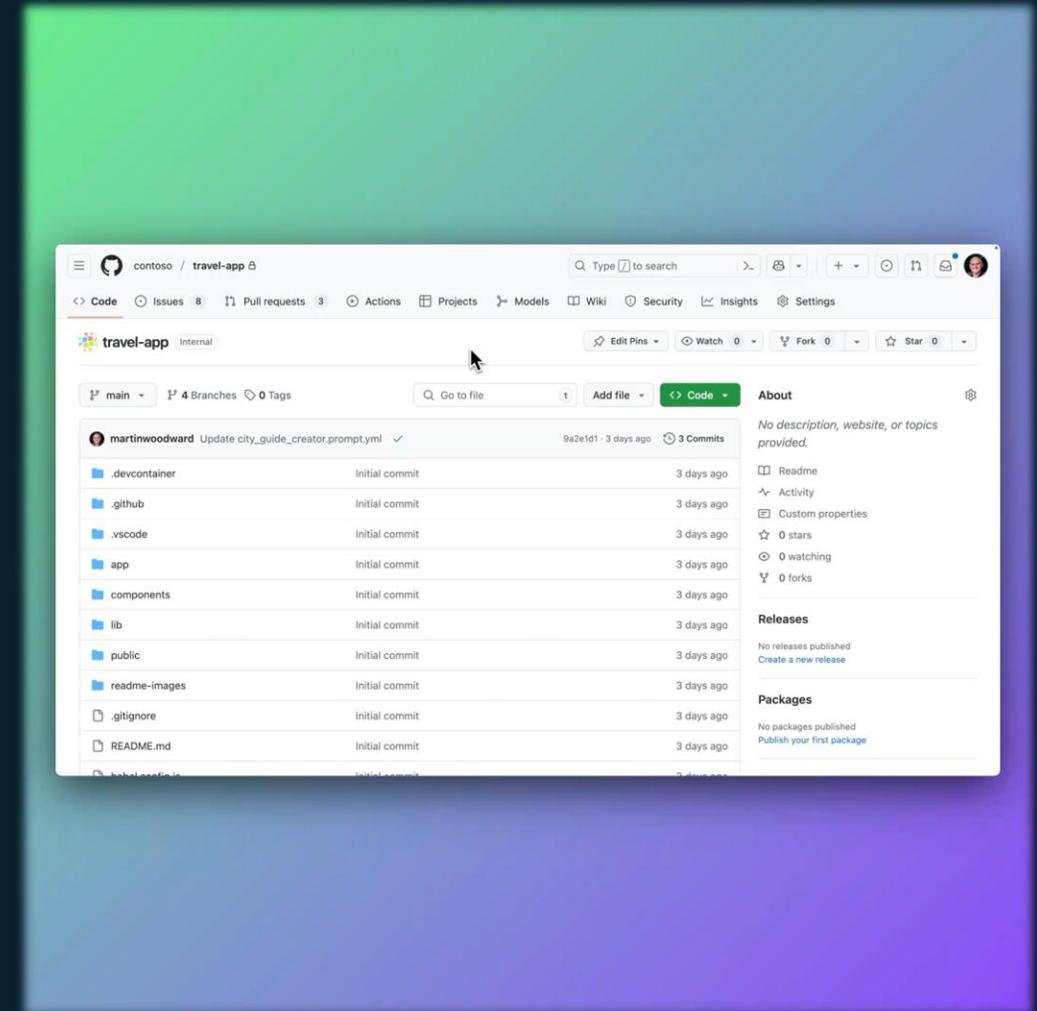
Public Preview

- Bring AI for your applications within the context of your repos

- Enable prompts as code approach for collaboration and automation

- Extend AI across the software lifecycle through commit, pull request, AI-driven GitHub Actions and more

- Side-by-side evaluation of a curated list of top Azure AI Foundry Models right within GitHub



Demo: <https://youtu.be/NgLhYqkU4YM?si=iWpMFGpnTuR89VfS>

Prompt engineering meets version control

- Store, version, and manage .prompt.yml files in-repo
- Built-in prompt editor for fast iteration in natural language
- Pull-request-based prompt workflows for safe collaboration
- Preview diffs and roll back changes anytime

The screenshot shows a GitHub repository interface for 'contoso / travel-app'. The 'Models' tab is selected. A specific file, 'city_guide_creator.prompt.yml', is being viewed. The interface includes a prompt editor on the left and a preview pane on the right.

System prompt:

```
You are a travel guide for Contoso Airways. When passed a city name, provide the following information in a json feed.

{ "city": "",
```

User prompt:

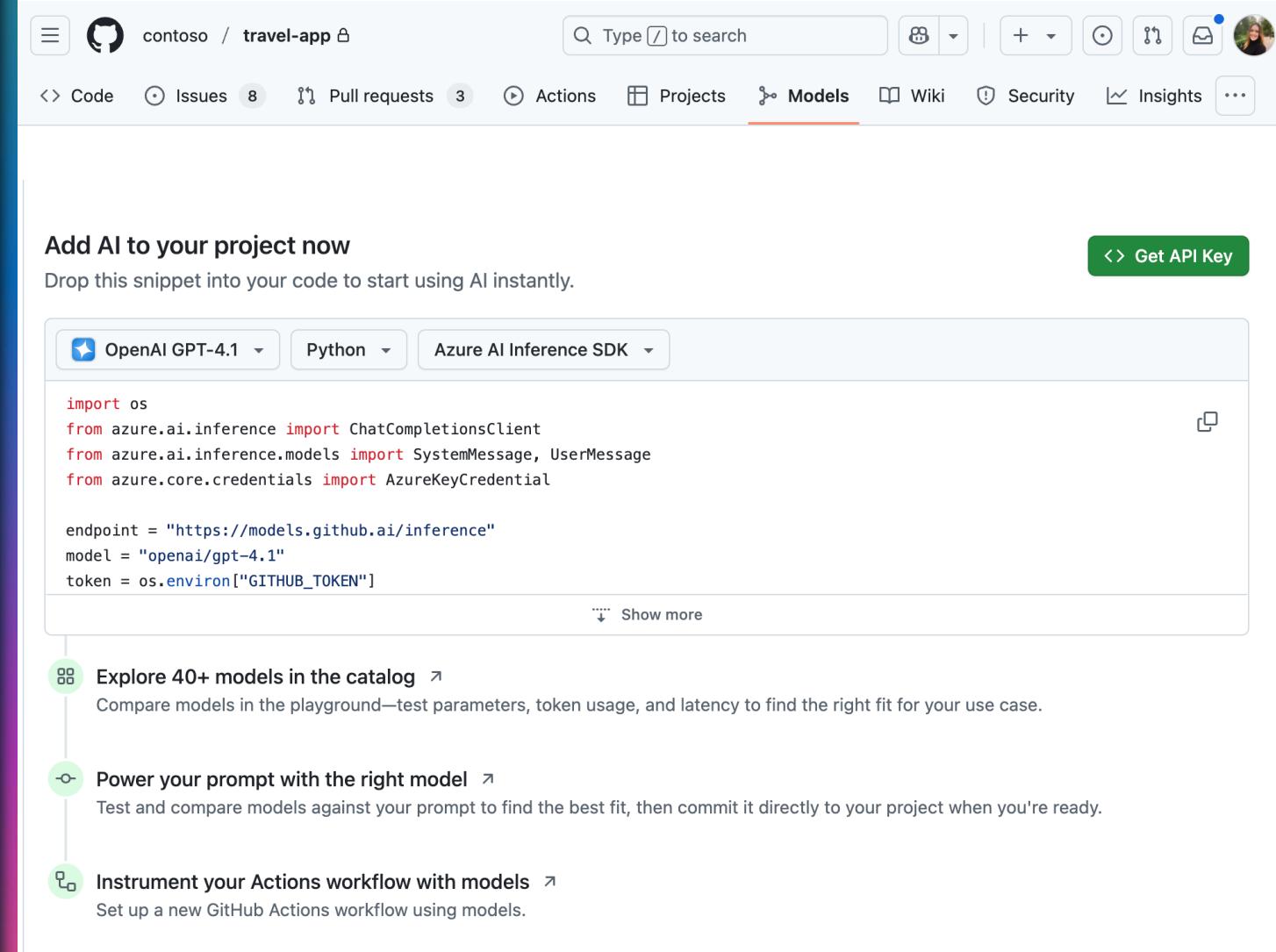
```
washington
```

Response (JSON output):

```
{
  "city": "Washington, D.C.",
  "country": "United States",
  "lat/long": "38.89511° N, 77.03637° W",
  "description": "Washington, D.C. is the vibrant U.S. capital, famed for iconic landmarks like the White House, the Lincoln Memorial, and the Washington Monument, and is a major center of government and culture in the United States.",
  "highlights": "A city of monuments, museums, and U.S. history at every turn."
```

No more guessing to find the best model & prompt combination

- One API key, access to 40+ models with no deployment or maintenance needed
- Compare outputs from 40+ models (OpenAI, Meta, DeepSeek, and more)
- Side-by-side lightweight evaluations built directly into each repo
- Score results using custom evaluators or LLM judges



The screenshot shows the GitHub interface for the repository "contoso/travel-app". The "Models" tab is selected in the navigation bar. A search bar at the top right contains the placeholder "Type / to search". Below the navigation, there are links for Code, Issues (8), Pull requests (3), Actions, Projects, Models (which is underlined in red), Wiki, Security, and Insights. On the far right, there's a user profile icon.

Add AI to your project now

Drop this snippet into your code to start using AI instantly.

`OpenAI GPT-4.1` Python Azure AI Inference SDK

```
import os
from azure.ai.inference import ChatCompletionsClient
from azure.ai.inference.models import SystemMessage, UserMessage
from azure.core.credentials import AzureKeyCredential

endpoint = "https://models.github.ai/inference"
model = "openai/gpt-4.1"
token = os.environ["GITHUB_TOKEN"]
```

Show more

Explore 40+ models in the catalog Compare models in the playground—test parameters, token usage, and latency to find the right fit for your use case.

Power your prompt with the right model Test and compare models against your prompt to find the best fit, then commit it directly to your project when you're ready.

Instrument your Actions workflow with models Set up a new GitHub Actions workflow using models.

Built for control, security, and scale

- Everything runs on GitHub and Azure infrastructure.
- Your data stays secure and is never leveraged for training of our models
- Org-level model controls to choose which models are available to their group

The screenshot shows the GitHub Organization settings page for 'Contoso Ltd'. At the top, it displays the organization's logo and name, along with a link to its parent organization 'contoso-ent' and a 'Switch settings context' dropdown. Below this, there is a section titled 'Models in your organization' with a sub-section 'Models permissions'. Two options are listed: 'All publishers' and 'Only select models'. The 'Only select models' option is selected, indicated by a blue outline around its radio button. A 'Disabled list' dropdown menu is open, showing two sections: 'Enabled list' (which is currently selected) and 'Disabled list'. The 'Enabled list' section contains the instruction 'Select models that will be available for your organization.' The 'Disabled list' section contains the instruction 'Select models that will be blocked from use in your organization.' To the right of the 'Disabled list' dropdown, there is a button labeled '+ Add models or publishers' and a small circular icon with the number '0' indicating no models are currently disabled. Below the dropdown, a large bold text states '0 models have been blocked yet.'

Contoso Ltd
Organization, part of contoso-ent ➔ Switch settings context ▾

Models in your organization

Enable GitHub Models for your organization to allow users to interact with models using their code. This suite of AI development features is available at the repository level. [Learn more about Models](#).

Enabled

All publishers

Enable all current and future publishers available in the marketplace. All processing is handled securely by GitHub and Azure and never shared with external model providers.

Only select models

Create an enabled or disabled list.

Disabled list

+ Add models or publishers

Enabled list

Select models that will be available for your organization.

Disabled list

Select models that will be blocked from use in your organization.

0

0 models have been blocked yet.

Accelerate AI App development with GitHub and Azure

GitHub Models

Making every developer an AI developer



Rapid prototyping of AI applications



Bring AI development into the familiar GitHub workflow



Test and experiment in a powerful, safe playground



Simplify deployment to Azure

Ideation to production for AI apps

Azure AI Foundry

Design, customize, and manage AI apps and agents at scale



Comprehensive catalog of models: foundational to fine-tuned



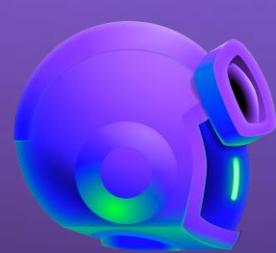
Powerful AI services for enterprise scale apps



Evaluate, secure, and ensure content safety

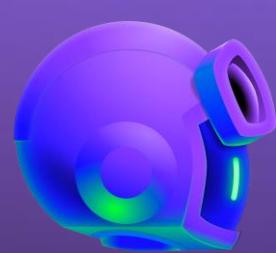


Continuous monitoring and governance across environments



GitHub Models Resources

- **Demo:** <https://youtu.be/NgLhYqkU4YM?si=iWpMFGpnTuR89VfS>
- **Documentation:**
<https://docs.github.com/github-models/about-github-models>
- **Marketplace:** <https://github.com/marketplace?type=models>
- **Blog Posts:** <https://github.blog/tag/github-models>
- **GitHub Models Product Updates:**
<https://github.blog/changelog/?label=ecosystem-and-accessibility>
- **Leave us feedback at:**
<https://github.com/orgs/community/discussions/categories/models>



Monthly GitHub Enterprise Roundup

- ***NEW* June '25 Enterprise Roundup - GitHub Resources**

- GitHub is shipping new features, product updates, and best practices faster than ever. To help you stay ahead, our Enterprise Advocacy team has curated this monthly roundup—bringing you a concise, enterprise-focused summary of the most important updates you might have missed.

In this post, you'll find a carefully selected list of key innovations, expert insights, and must-know resources—guided by feedback from GitHub's largest customers—to help your team innovate faster, boost productivity, and enhance security. Share with your teams and stakeholders so they can also get the most out of their GitHub experience.

<https://gh.io/Enterprise-Roundup-June-25>



Thank You!

