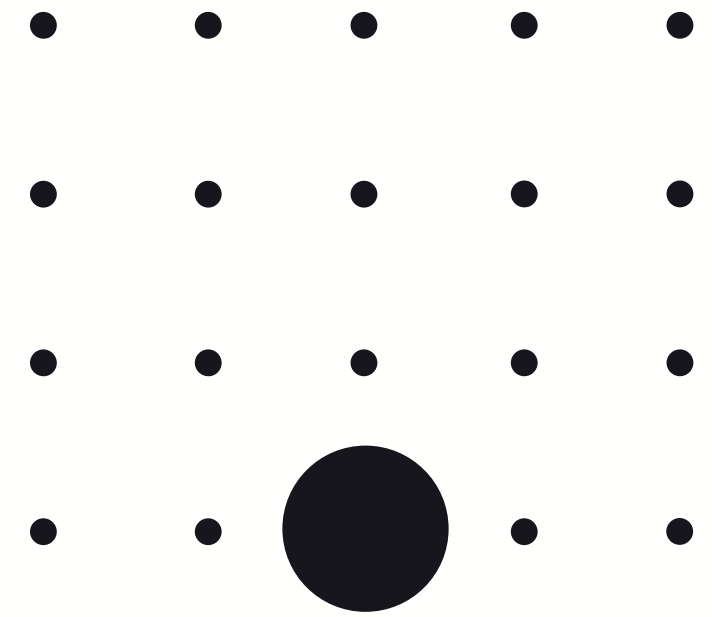
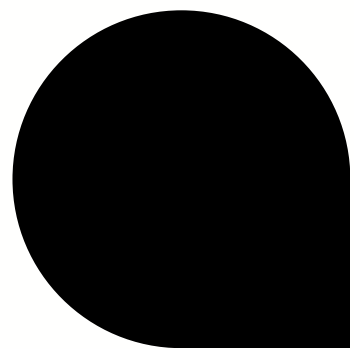
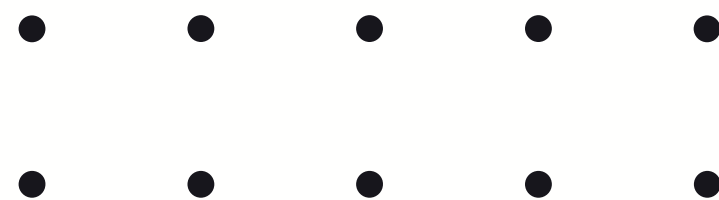


CONVERSATIONAL AI DAYS 2025

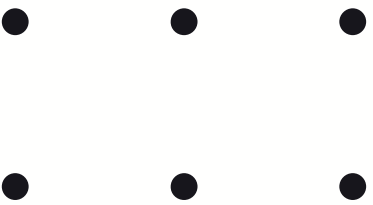


DEMYSTIFYING AI AGENTS

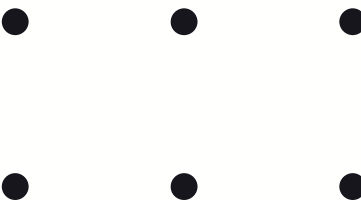
Juan Carlos Quintero



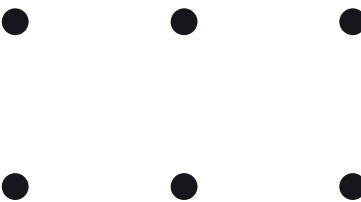
2025 be like...



2025 be like...

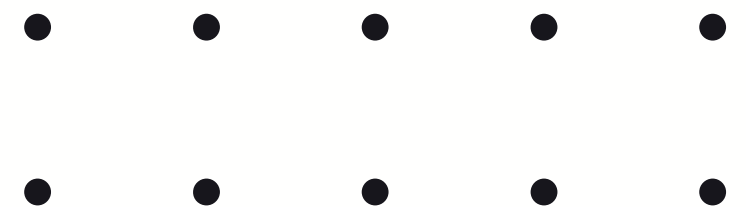


2025 be like...



Agenda

- Who am I?
- Why agents? Why now?
- AI Agents
- Tools use
- How to build an agent
- Latest developments
- Thanks!



Who am I?

I'm JC

- Born in Venezuela 🇧🇷
- Studied Software Engineering
- Worked for 10+ years as Engineer
- Working now as AI Consultant
- Voiceflow Certified Expert
- YouTuber 😄



Montevideo, Uruguay



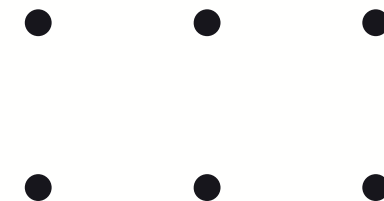
Munich, Germany



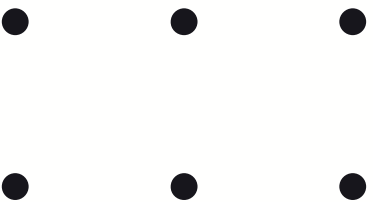
Berlin, Germany



Cancun, Mexico



Why agents? Why now?

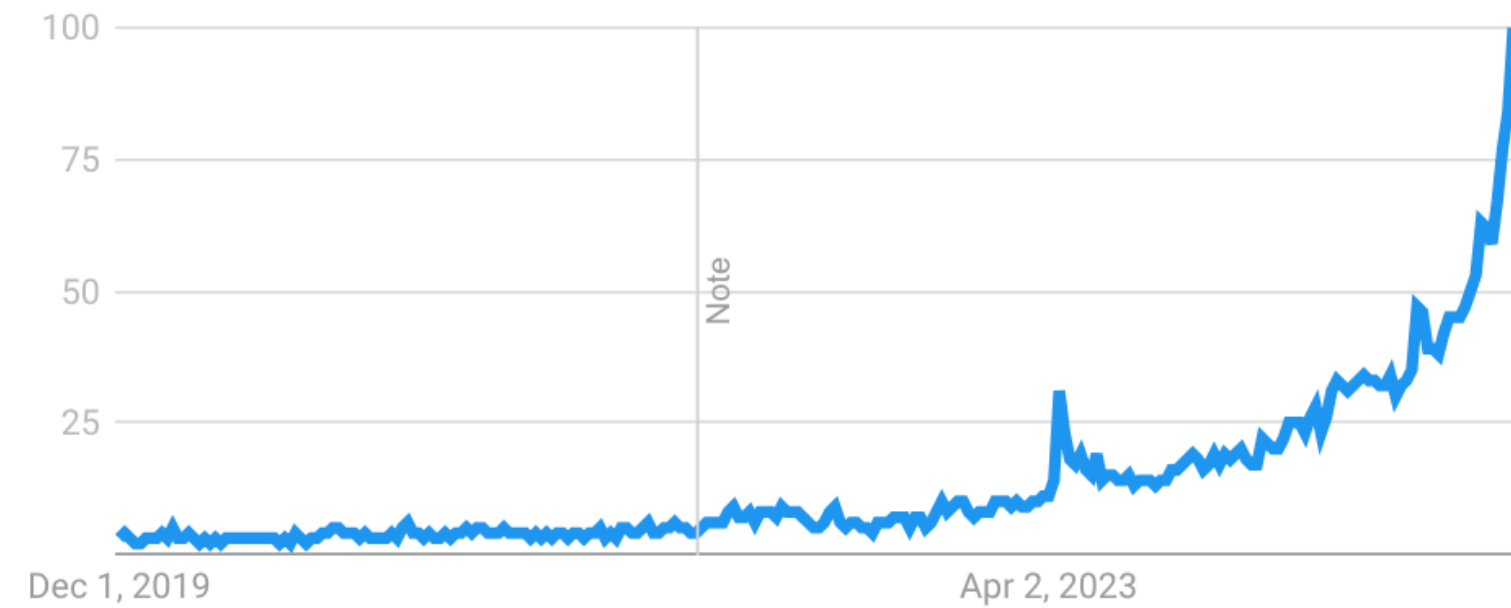


Why agents? Why now?

Interest over time

Google Trends

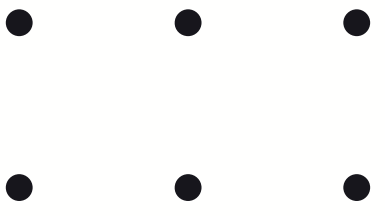
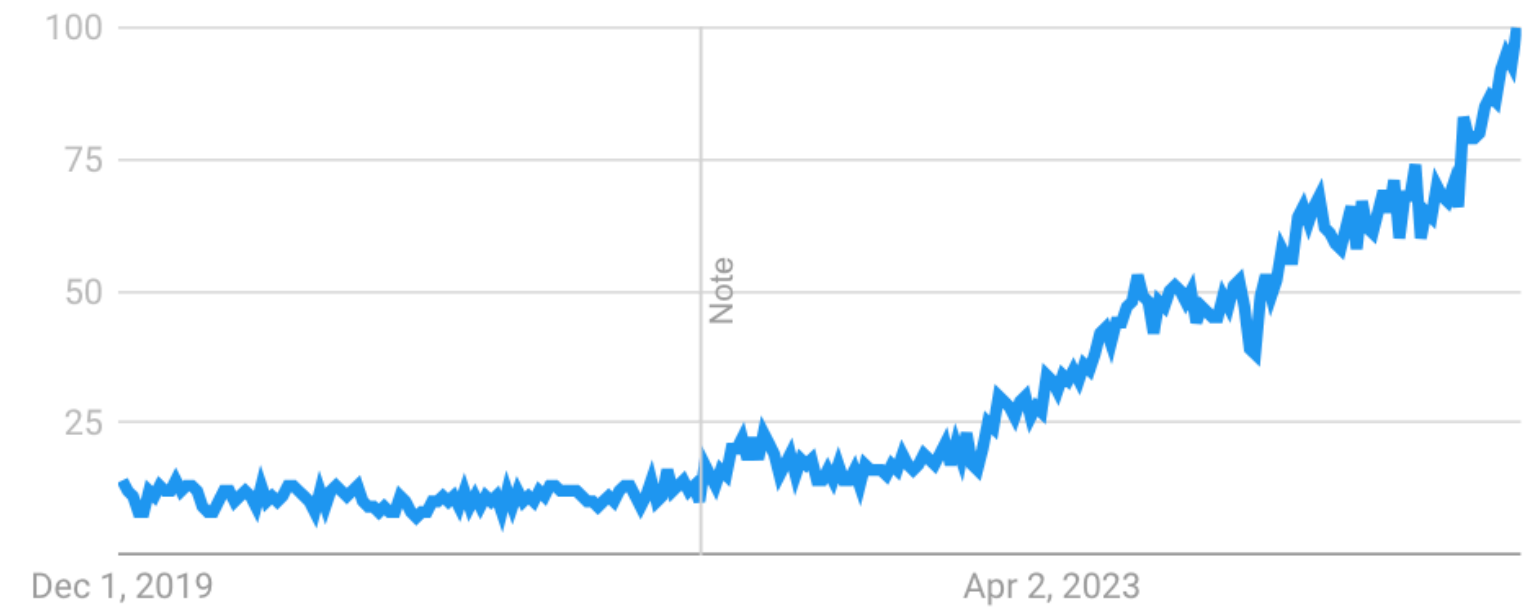
● AI Agent



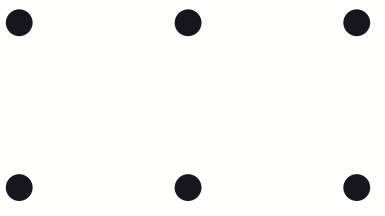
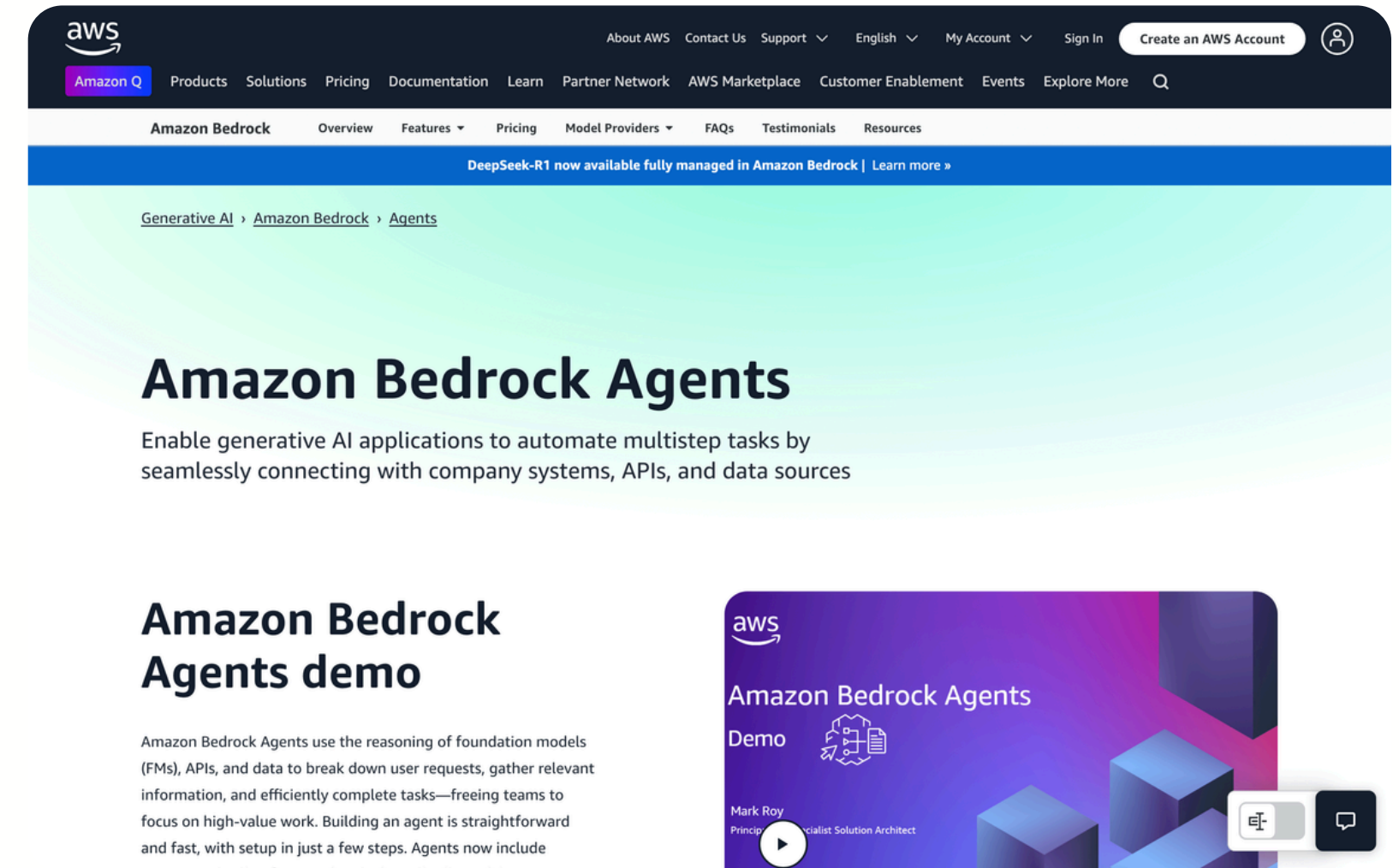
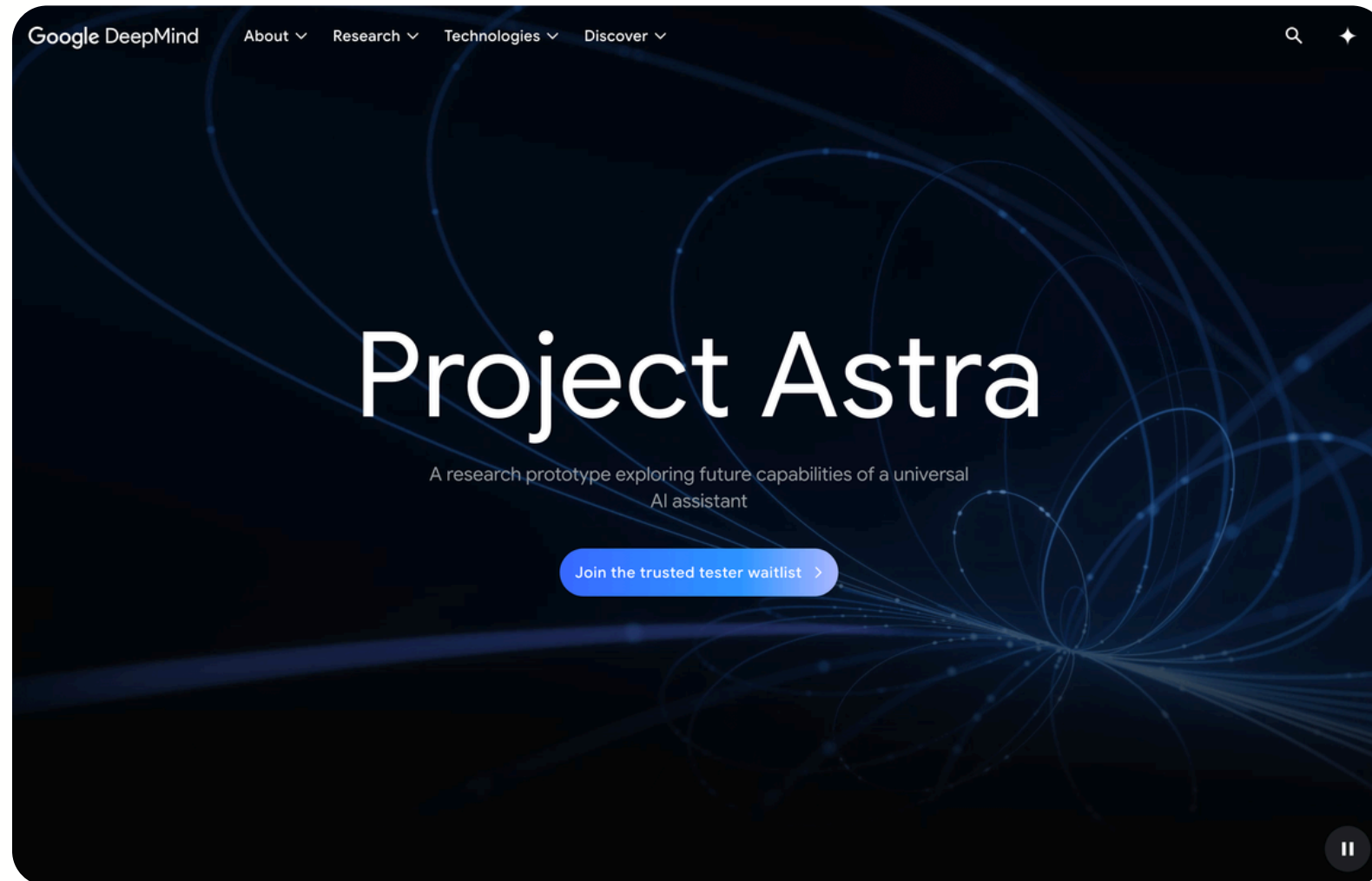
Interest over time

Google Trends

● AI Automation



Why agents? Why now?



Why agents? Why now?

The screenshot shows the SAP website's 'Künstliche Intelligenz' (Artificial Intelligence) section. The main heading is 'Joule-Agenten'. Below it, the text reads: 'Die einzigen KI-Agenten, die über durchgängige Prozesse hinweg zusammenarbeiten, um Ihrem Unternehmen zu mehr Effizienz zu verhelfen.' There are two buttons: 'Gesprächstermin vereinbaren' and 'Keynote von SAP Business Unleashed ansehen'. A video player shows a man and a woman looking at a screen with the prompt 'Plan an offsite meeting with my team'. A 'Kontakt' button is visible in the bottom right corner of the video player area.

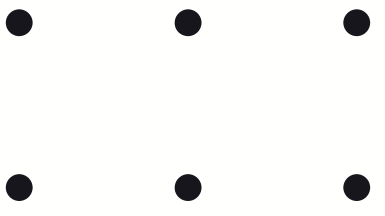
A blue banner for 'SAP Sapphire' with the text: 'Your best. Made real. Discover how SAP helps businesses go beyond the AI hype and bring out real results.' and a button that says 'Register now for the early-bird discount'.

KI-Agenten, die zusammen für Ihr Unternehmen arbeiten

Joule stellt Ihren Teams einzigartige KI-Agenten zur Verfügung, die Ihre Geschäftsprozesse wirklich verstehen und funktionsübergreifend zusammenarbeiten. Dadurch werden Abteilungen vernetzt, die Entscheidungsfindung beschleunigt

Kontakt

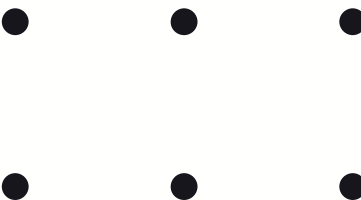
The screenshot shows the Agentforce website. The main heading is 'Agentforce' with the tagline 'The Digital Labor Platform'. Below it are two buttons: 'Watch now' and 'Talk to an expert'. At the bottom, there are several panels showing AI agent capabilities, including 'User Prompt', 'Create from scratch', and 'Ask Agentforce'. A 'Kontakt' button is visible in the bottom right corner of the page.



Why agents? Why now?

The screenshot shows the NVIDIA website's 'Artificial Intelligence' section. The main heading is 'Powering the Next Generation of AI Agents'. Below it, a sub-heading reads 'Explore the cutting-edge building blocks of AI agents designed to reason, plan, and act.' There are two buttons: 'Get Started' and 'Contact Sales'. A navigation bar at the top includes 'Shop', 'Drivers', 'Support', and a search icon. A secondary navigation bar lists 'Industries', 'Solutions', 'Software', 'Products', and 'Resources'. At the bottom, there is a 'Get Started' button and a section titled 'Overview' with the sub-heading 'What Is Agentic AI?'. A news snippet at the bottom right says 'NVIDIA Launches Family of Open Reasoning Models for Building AI'.

The screenshot shows the Zapier website's 'Agents' section. The main heading is 'Meet your new AI teammates'. Below it, a sub-heading reads 'Create your own superhuman teammates in minutes. Equip your Agents with company knowledge and have them do work across 7,000+ apps — on command and while you sleep.' There are two buttons: 'Get started free' and 'View pricing'. The background features a screenshot of the Zapier interface showing a 'Sales Call Prep' agent workflow. The workflow includes a chat message from 'Kristen C.' asking for help with a sales meeting, followed by an action 'Google Calendar: Find Event' and another 'Sales Call Prep' agent. A 'Create behavior' button is visible at the bottom right.




Why agents? Why now?


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TECHNOLOGY > GOOGLE DEEPMIND

Introducing Gemini 2.0: our new AI model for the agentic era

Dec 11, 2024 · 10 min read


 **Sundar Pichai**
CEO of Google and Alphabet

 **Demis Hassabis**
CEO of Google DeepMind


 **Koray Kavukcuoglu**
CTO of Google DeepMind

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Read AI-generated summary

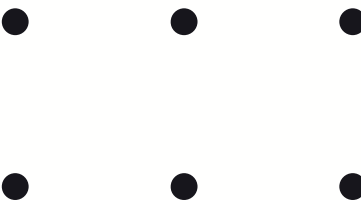


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AI agents — what they are, and how they'll change the way we work

by Susanna Ray



Why agents? Why now?

Publications Download PDF ↓

White papers

Published: 16 December 2024

Navigating the AI Frontier: A Primer on the Evolution and Impact of AI Agents

Download PDF ↓

AI agents are autonomous systems capable of sensing, learning and acting upon their environments. This white paper explores their development and looks at how they are linked to recent advances in large language and multimodal models. It highlights how AI agents can enhance efficiency across sectors including healthcare, education and finance.

In collaboration with Capgemini

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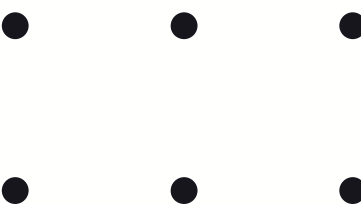
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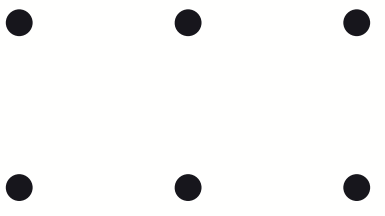
Why agents are the next frontier of generative AI

July 24, 2024 | Article

▼



Why agents? Why now?

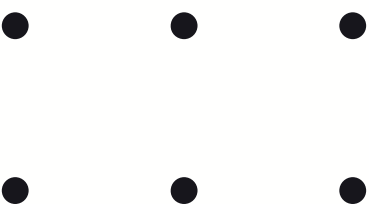


AI Agents

“**Software** that uses **AI** and **tools** to accomplish a goal requiring **multiple steps**”

The Future Of AI Agents With Dharmesh Shah | INBOUND 2024

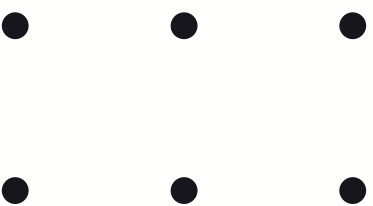
<https://www.youtube.com/watch?v=lityUpVVD38>



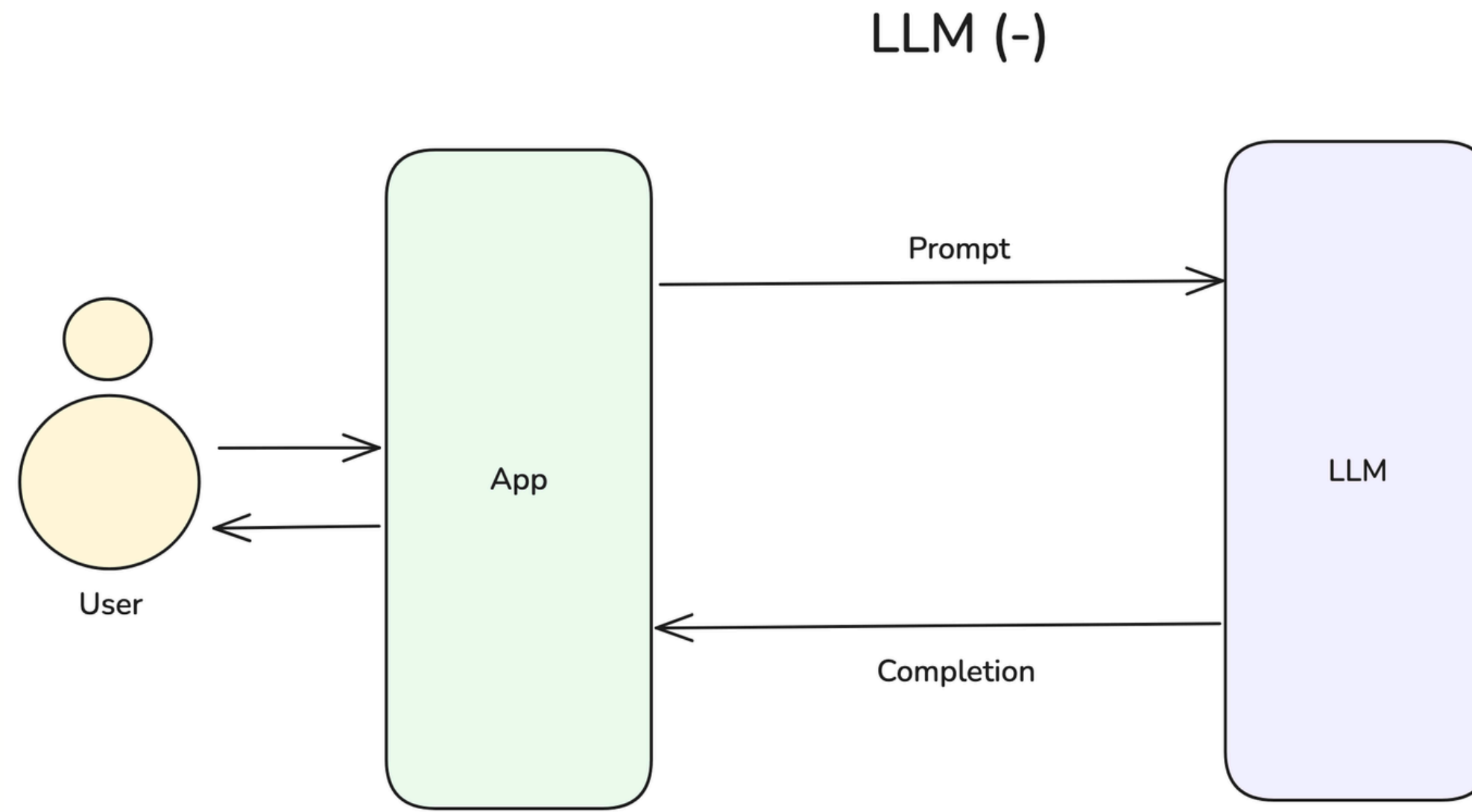
AI Agents

Manager:

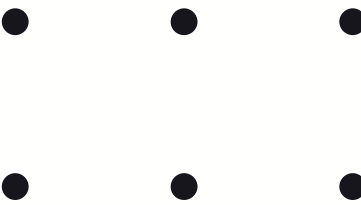
"How many vacation days per year do we have?"



AI Agents



LLM = Large Language Model (AI)
AI = Artificial Intelligence



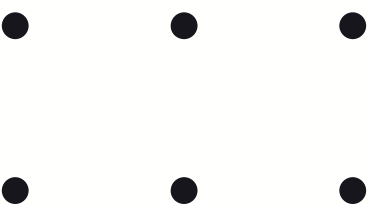
AI Agents

Manager:

"How many vacation days per year do we have?"

Bot:

"Your company offers 25 vacation days per year"



AI Agents

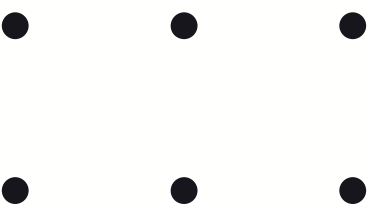
Manager:

"How many vacation days per year do we have?"

Bot:

"Your company offers 25 vacation days per year"

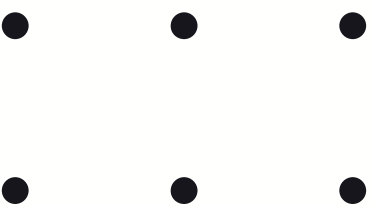
✗ (hallucination!)



AI Agents

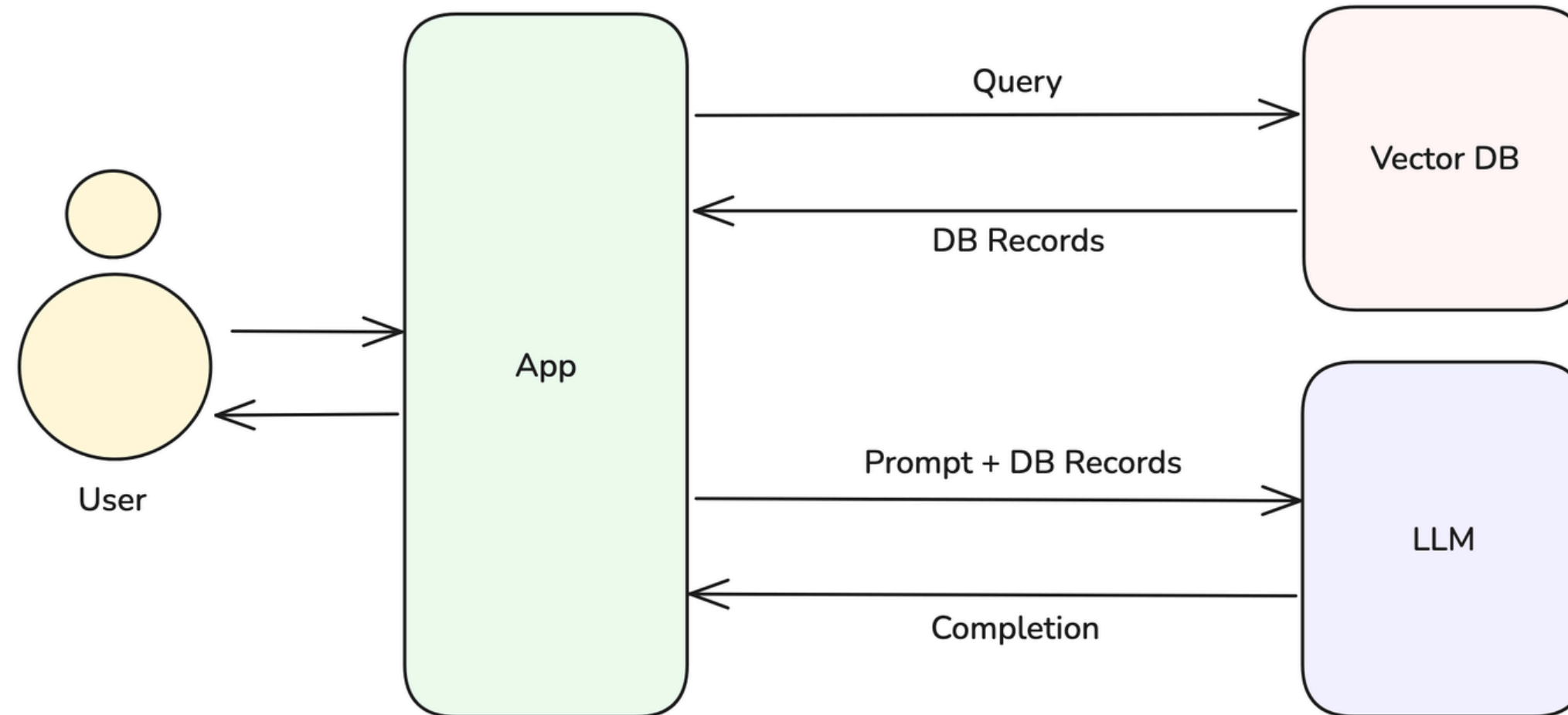
Manager:

"How many vacation days per year do we have?"

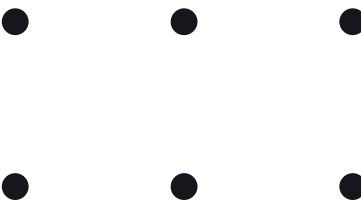


AI Agents

Knowledge + LLM (RAG)



LLM = Large Language Model (AI)
AI = Artificial Intelligence
RAG = Retrieval Augmented Generation
DB = Database



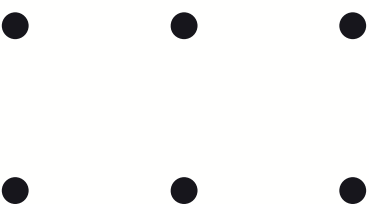
AI Agents

Manager:

"How many vacation days per year do we have?"

Bot:

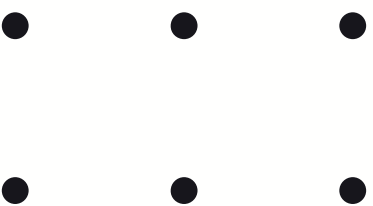
"Your company offers 30 vacation days per year" 



AI Agents

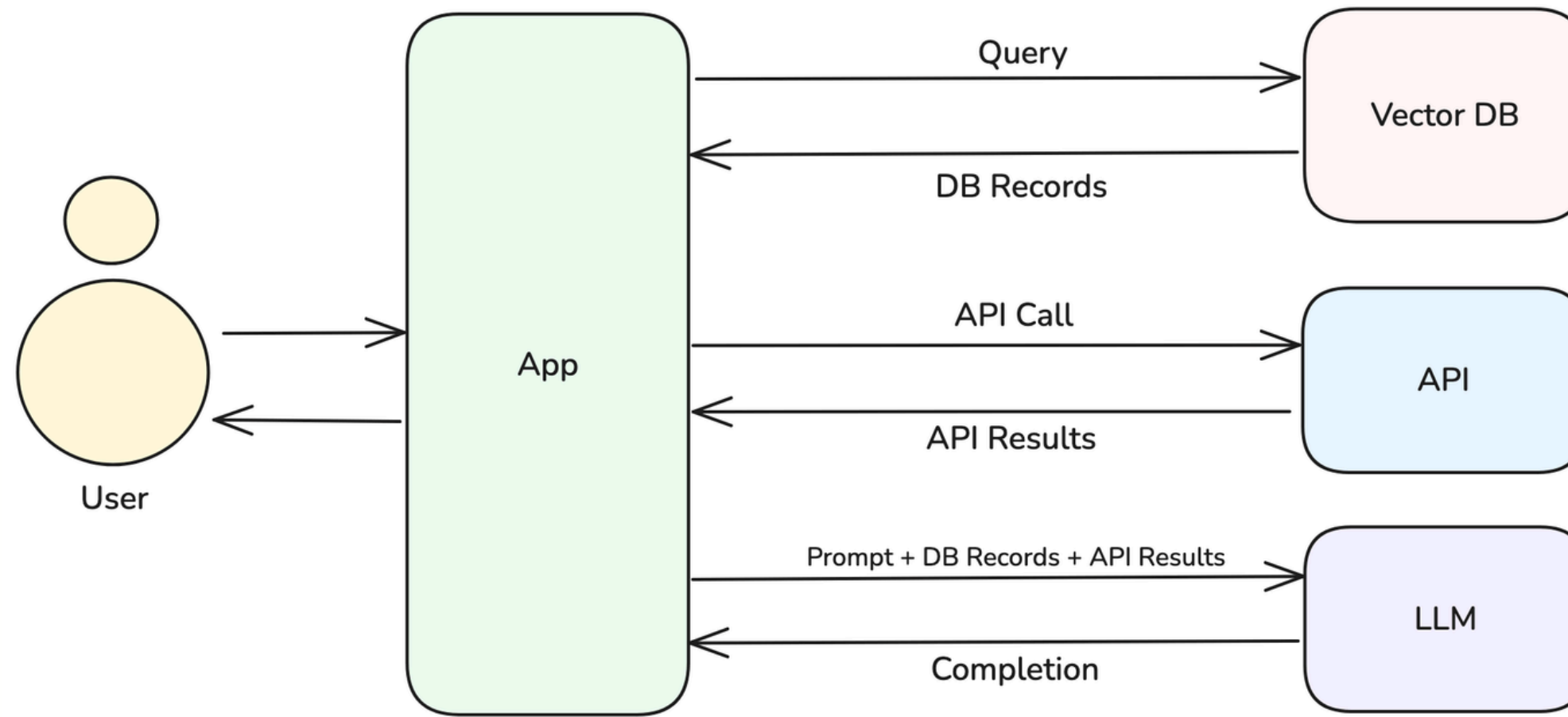
Manager:

"How many vacation days does **Max** have left to use this year?"

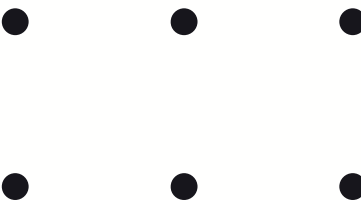


AI Agents

API + Knowledge + LLM (RAG-ish)



LLM = Large Language Model (AI)
AI = Artificial Intelligence
RAG = Retrieval Augmented Generation
DB = Database
API = Application Programming Interface



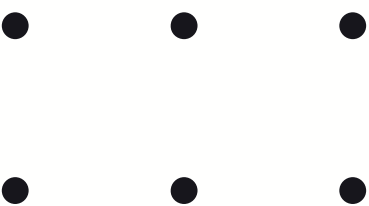
AI Agents

Manager:

"How many vacation days does **Max** have left to use this year?"

Bot:

"20 days" 

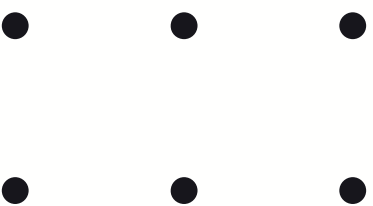


AI Agents

“accomplish a goal...”

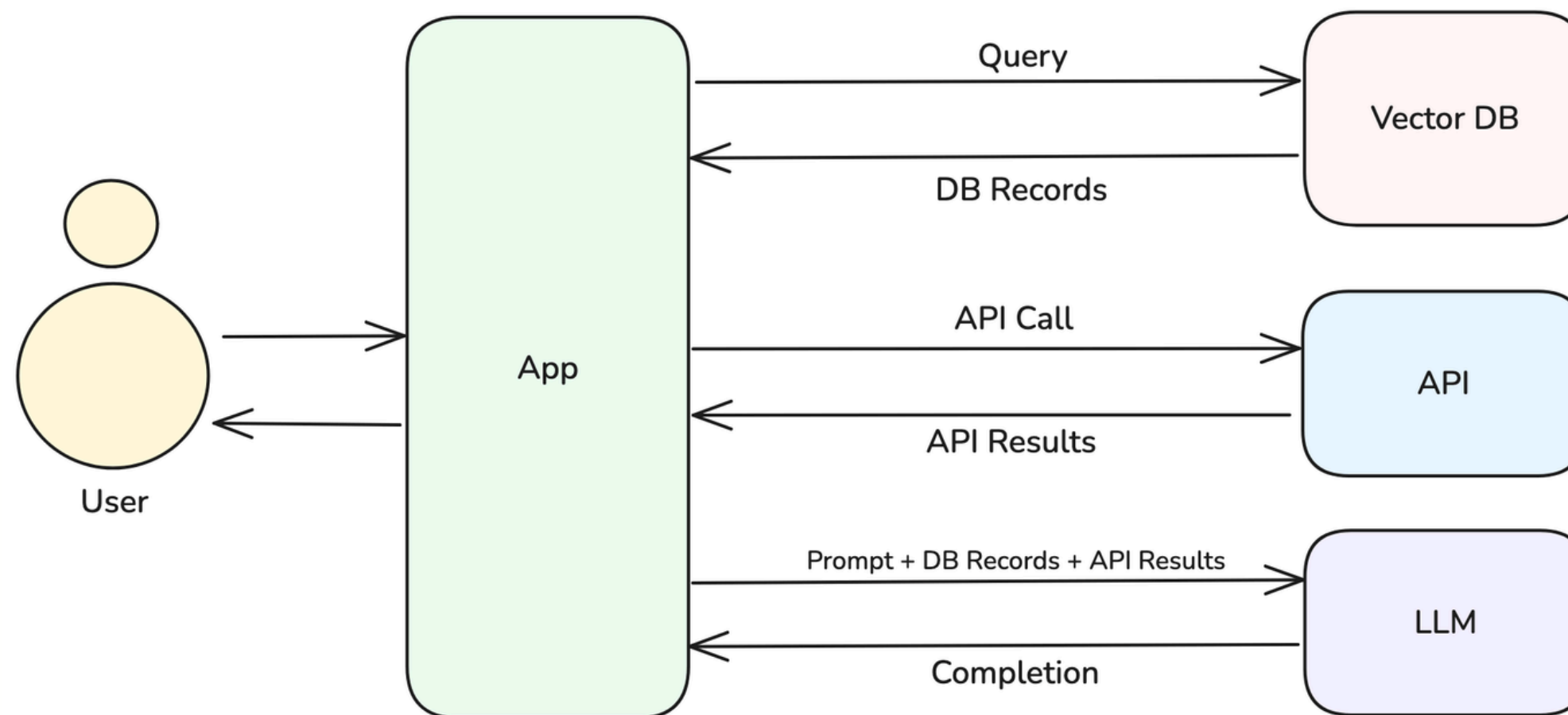
Manager:

“Register **five** vacation days for **Max** from ...”

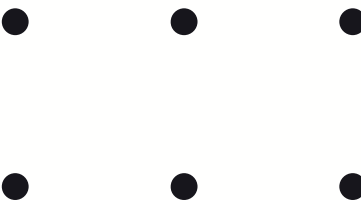


AI Agents 🥁

API + Knowledge + LLM (RAG-ish)

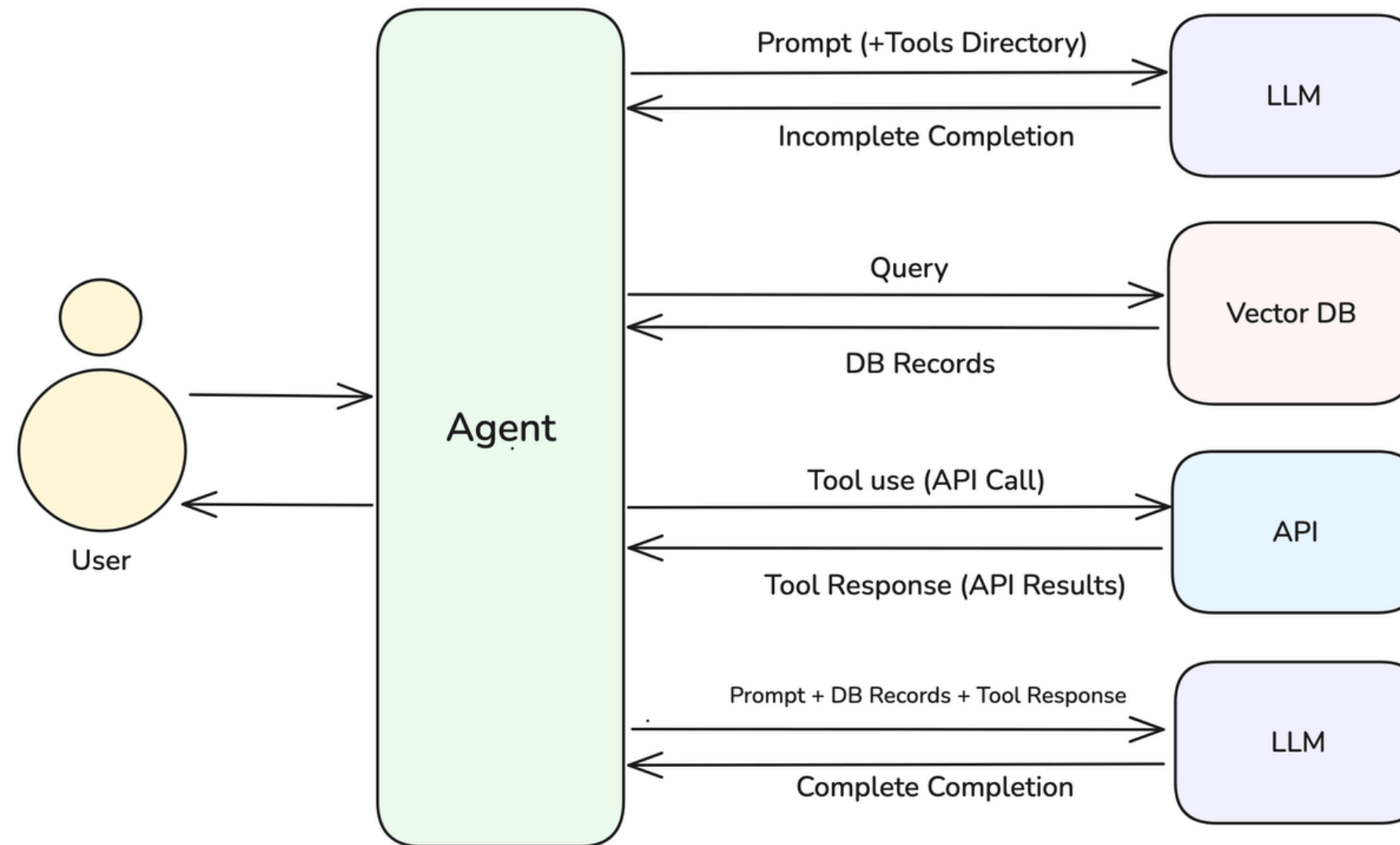


LLM = Large Language Model (AI)
AI = Artificial Intelligence
RAG = Retrieval Augmented Generation
DB = Database
API = Application Programming Interface

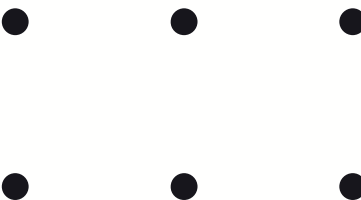


AI Agents

LLM + Tools + Knowledge + LLM (Agent!)



LLM = Large Language Model (AI)
AI = Artificial Intelligence
RAG = Retrieval Augmented Generation
DB = Database
API = Application Programming Interface



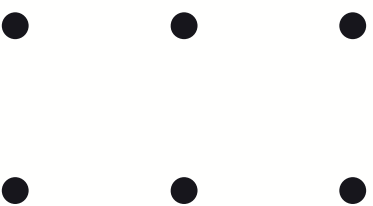
AI Agents

Manager:

"Register **five** vacation days for **Max** from ..."

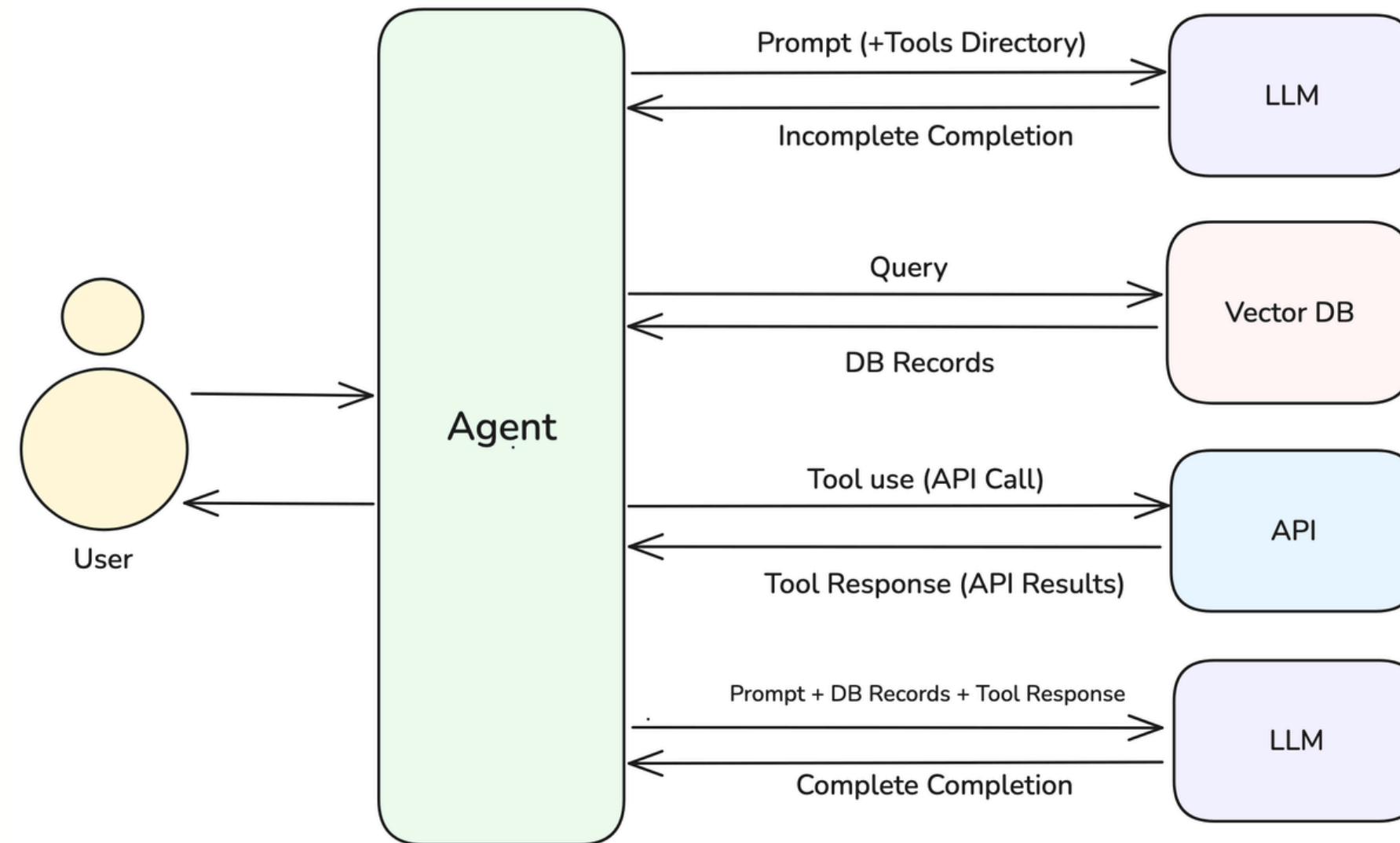
Bot:

"Done, 5 vacation days were registered for Max" 

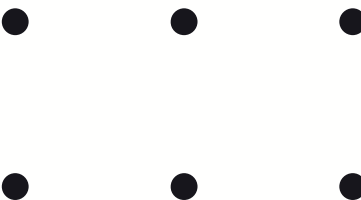


AI Agents 🤖

LLM + Tools + Knowledge + LLM (Agent-ish!)

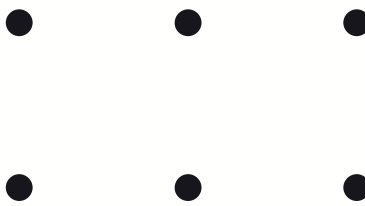
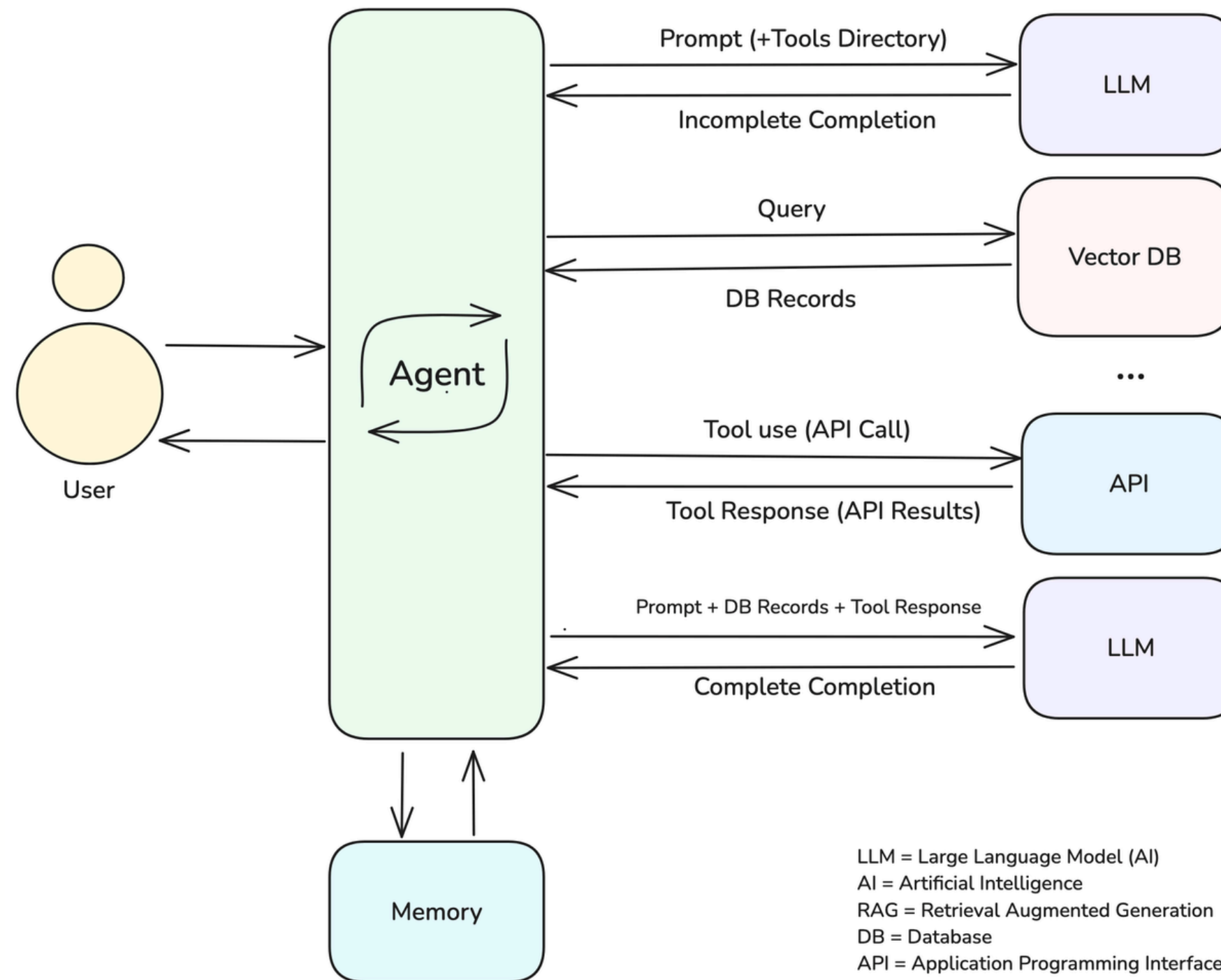


LLM = Large Language Model (AI)
AI = Artificial Intelligence
RAG = Retrieval Augmented Generation
DB = Database
API = Application Programming Interface



AI Agents 🎉

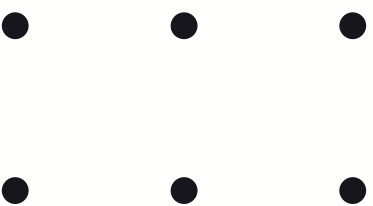
LLM + Tools + Knowledge + LLM (Agent!)



AI Agents

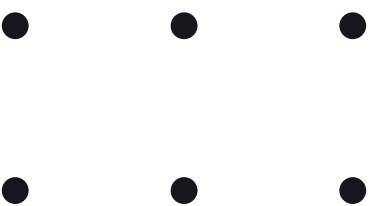
Manager:

"Book a nice hotel in a top beach location in Venezuela for our company retreat next October"



AI Agents

(Iron Man's Jarvis type-of-agent...)



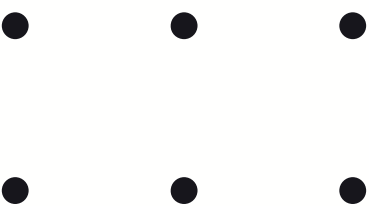
AI Agents

Manager:

"Book a nice hotel in a top beach location in Venezuela for our company retreat next October"

Bot:

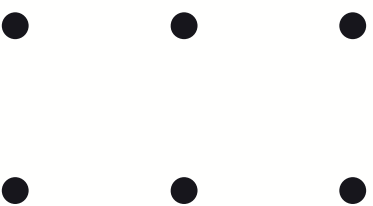
"Done, I have booked 34 double rooms for 67 confirmed employees and 8 single rooms for Executives and C-Level, in Alba Hotel located in Los Roques, a top island destination in Venezuela, from October 18th until October 26th. Invoice is in your inbox, you have 72 hours to make the payment" 🤖



AI Agents

Versus

- AI Agents vs Embodied Agents
- AI Agents vs AI Chatbots
- AI Agents vs AI Automation
- AI Agents vs Agentic



Tools use

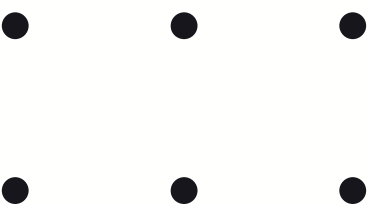
a.k.a. Function Calling

Anthropic

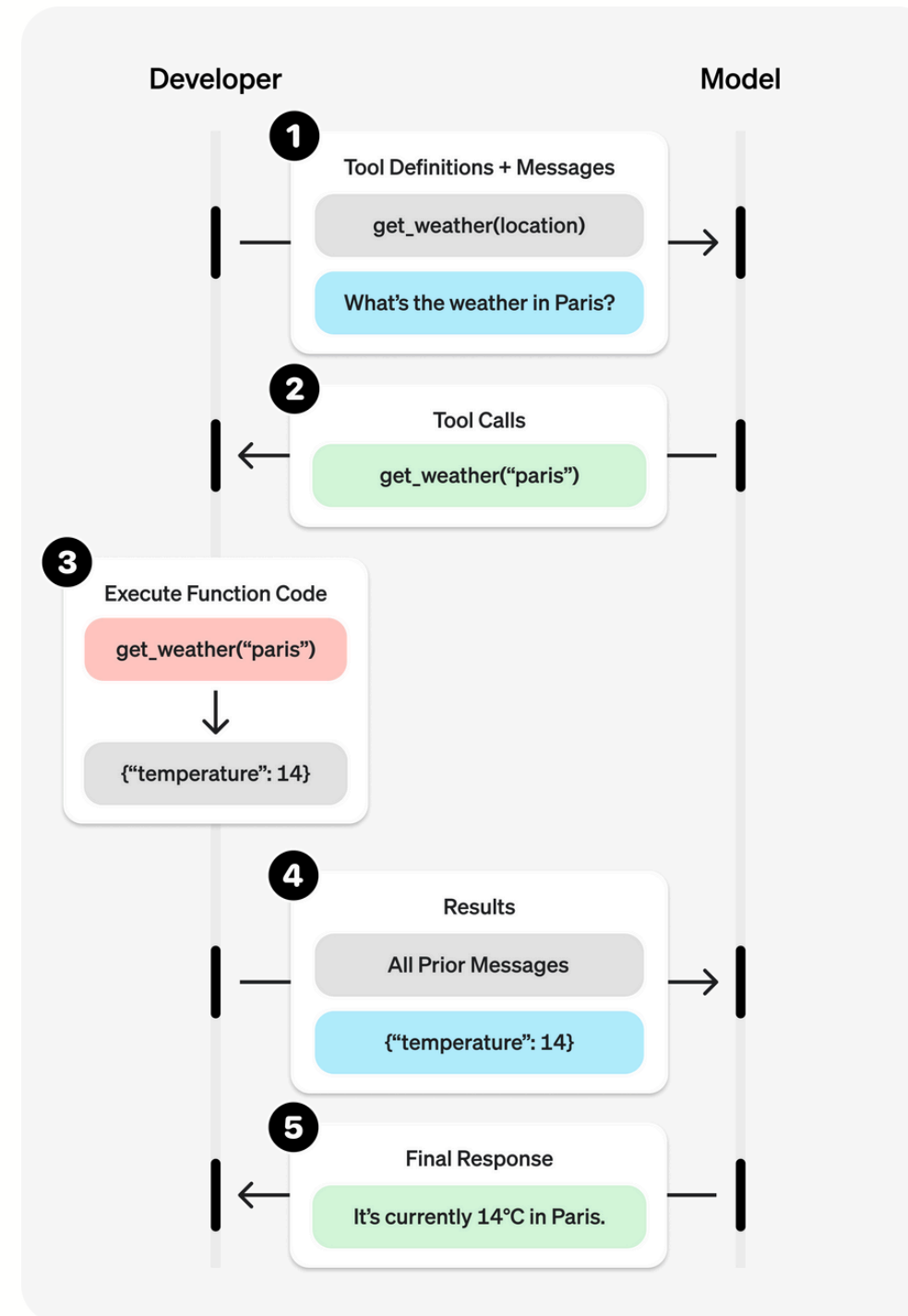
"Claude is capable of interacting with external client-side tools and functions, allowing you to equip Claude with your own custom tools to perform a wider variety of tasks."

OpenAI

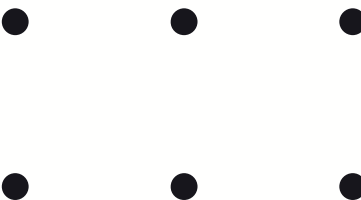
"Function calling provides a powerful and flexible way for OpenAI models to interface with your code or external services"



Tools use



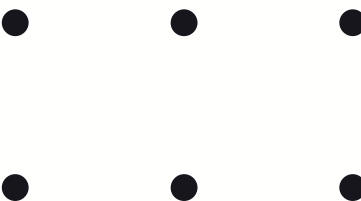
<https://platform.openai.com/docs/guides/function-calling?api-mode=responses>



Tools use

Prompt (+ Tools Directory)

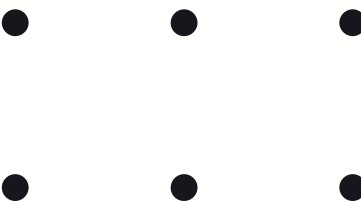
```
{
  "model": "claude-3-7-sonnet-20250219",
  "max_tokens": 1024,
  "tools": [{
    "name": "get_weather",
    "description": "Get the current weather in a given location",
    "input_schema": {
      "type": "object",
      "properties": {
        "location": {
          "type": "string",
          "description": "The city and state, e.g. Berlin, CA"
        },
        "unit": {
          "type": "string",
          "enum": ["celsius", "fahrenheit"],
          "description": "The unit of temperature, either \"celsius\" or \"fahrenheit\""
        }
      },
      "required": ["location"]
    }
  }],
  "messages": [{"role": "user", "content": "What is the weather like in Berlin?"}]
}
```



Tools use

Incomplete Completion (Use tool “X”)

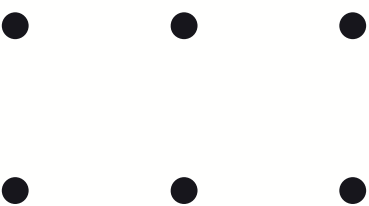
```
{
  "id": "msg_01Aq9w938a90dw8q",
  "model": "claude-3-7-sonnet-20250219",
  "stop_reason": "tool_use",
  "role": "assistant",
  "content": [
    {
      "type": "text",
      "text": "<thinking>I need to call the get_weather function, and the user wants Berlin, which is likely Berlin, Germany.</thinking>"
    },
    {
      "type": "tool_use",
      "id": "toolu_01A09q90qw901q9178351q9",
      "name": "get_weather",
      "input": {"location": "Berlin, Germany", "unit": "celsius"}
    }
  ]
}
```



Tools use

Tool execution

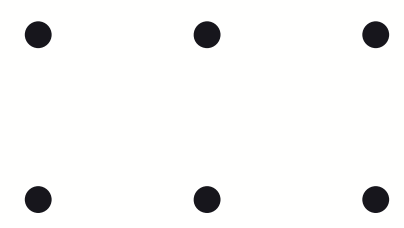
```
if (type === "tool_use" && name === "get_weather") {  
  const response = fetch_weather(input) // API Call  
  
  get_llm_completion(prompt, response) // Reprompt  
}
```



Tools use

Reprompt (With tool result)

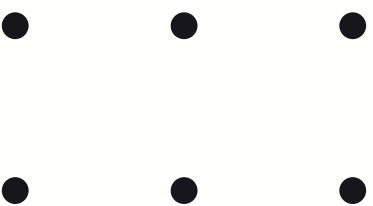
```
{
  ...
  "messages": [
    ...
    {
      "role": "user",
      "content": [
        {
          "type": "tool_result",
          "tool_use_id": "toolu_01A09q90qw901q9178351q9",
          "content": "15 degrees"
        }
      ]
    }
  ]
}
```



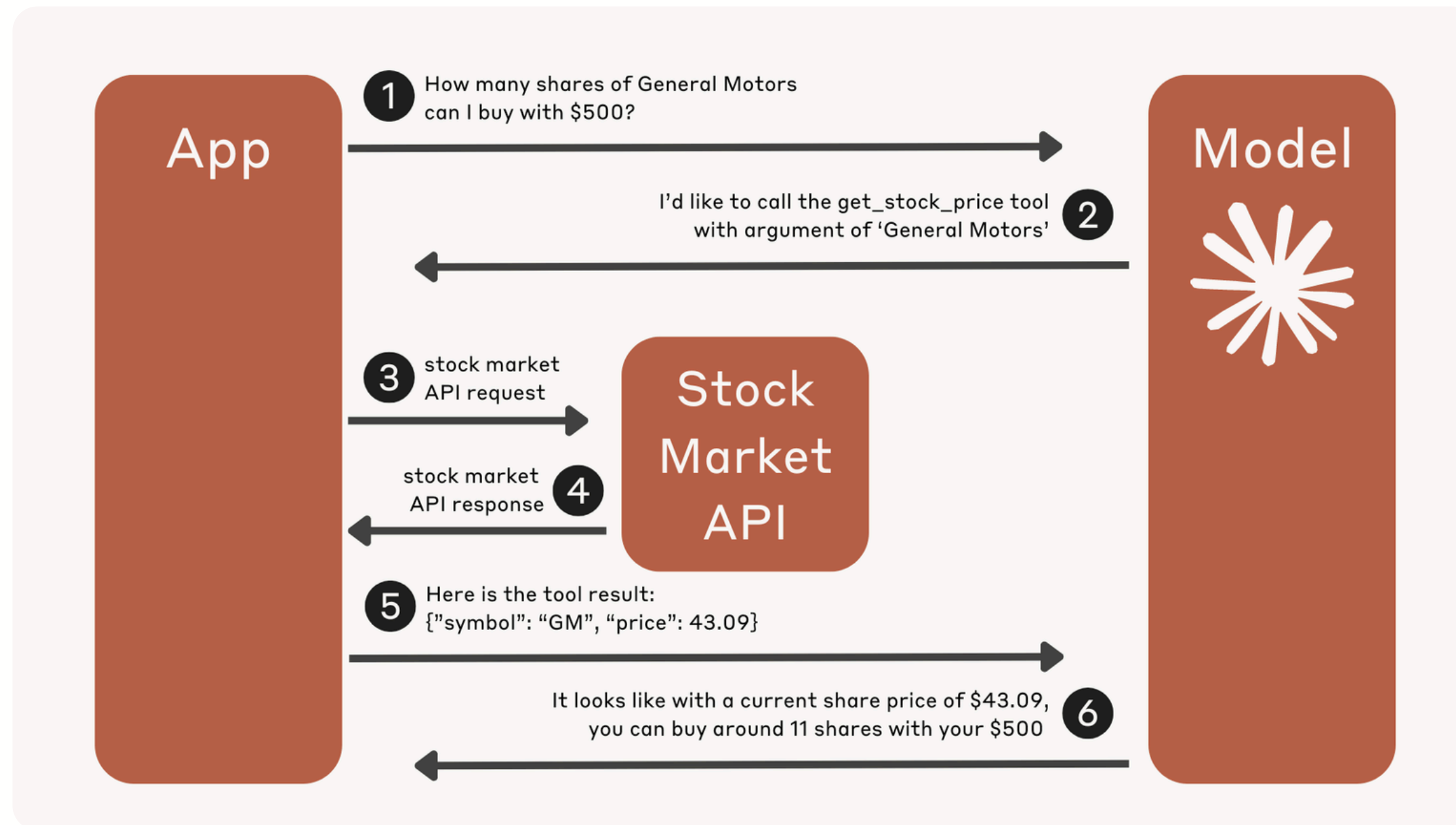
Tools use

Complete Completion (Using tool response)

```
{
  "id": "msg_01Aq9w938a90dw8q",
  "model": "claude-3-7-sonnet-20250219",
  "stop_reason": "stop_sequence",
  "role": "assistant",
  "content": [
    {
      "type": "text",
      "text": "The current weather in Berlin is 15 degrees Celsius (59 degrees Fahrenheit). It's a cool day in the city!"
    }
  ]
}
```

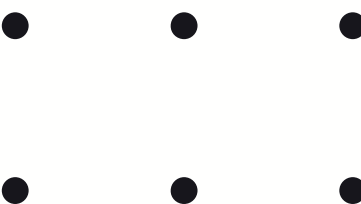


Tools use



<https://docs.anthropic.com/en/docs/build-with-claude/tool-use/overview>

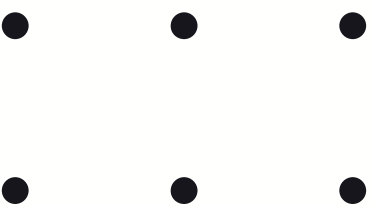
https://github.com/anthropics/courses/blob/master/tool_use/01_tool_use_overview.ipynb



How to build an agent

High-Code / Yes-Code

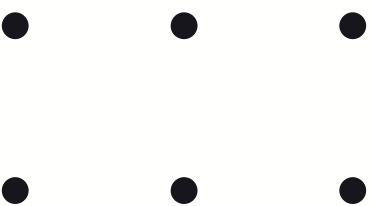
- OpenAI
- Anthropic
- Mistral
- Cohere
- Llama
- ...



How to build an agent

Agent Frameworks

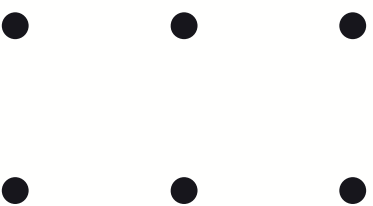
- CrewAI
- AutoGen
- LangChain
- AI SDK by Vercel
- Agents SDK by OpenAI (new)
- ...



How to build an agent

Low-Code / No-Code

- Flowise
- Replit
- n8n
- LangFlow
- ...



Latest developments

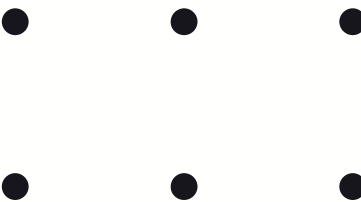
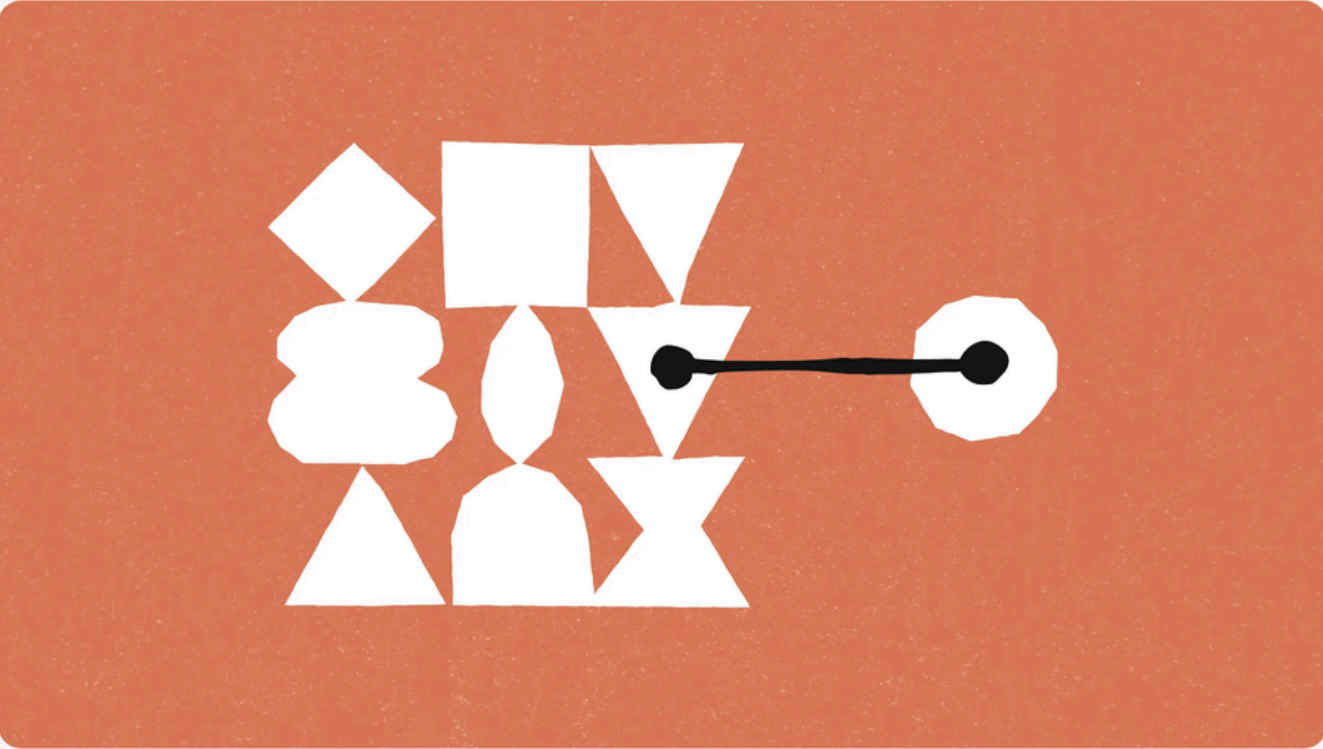
AI

Claude API Research Commitments Learn News [Try Claude](#)

Announcements

Introducing the Model Context Protocol

Nov 25, 2024 • 3 min read



Latest developments

OpenAI 

 [Log in](#)

Research

Safety

ChatGPT

Sora

API Platform

For Business

Stories

Company

News

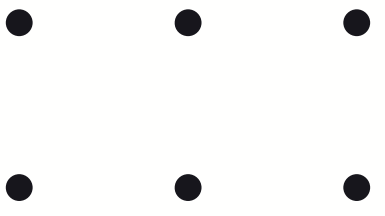
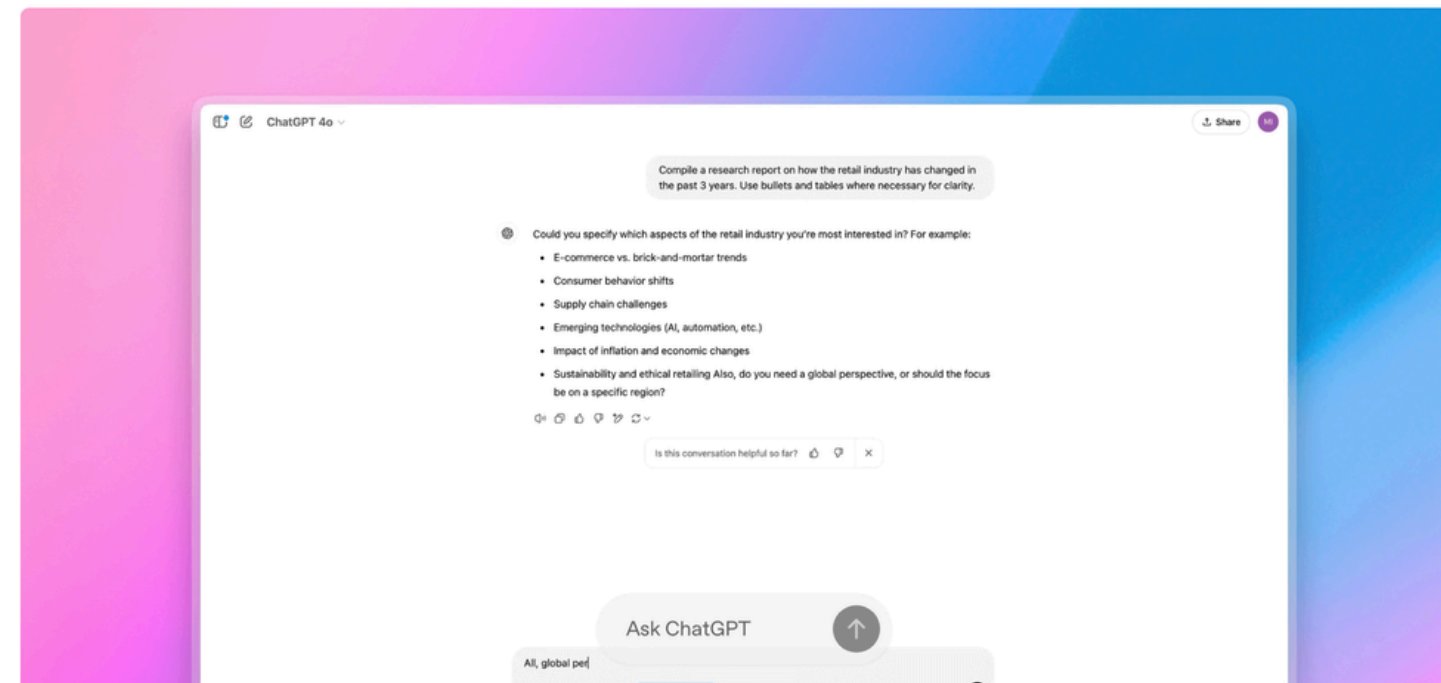


February 2, 2025 [Release](#)

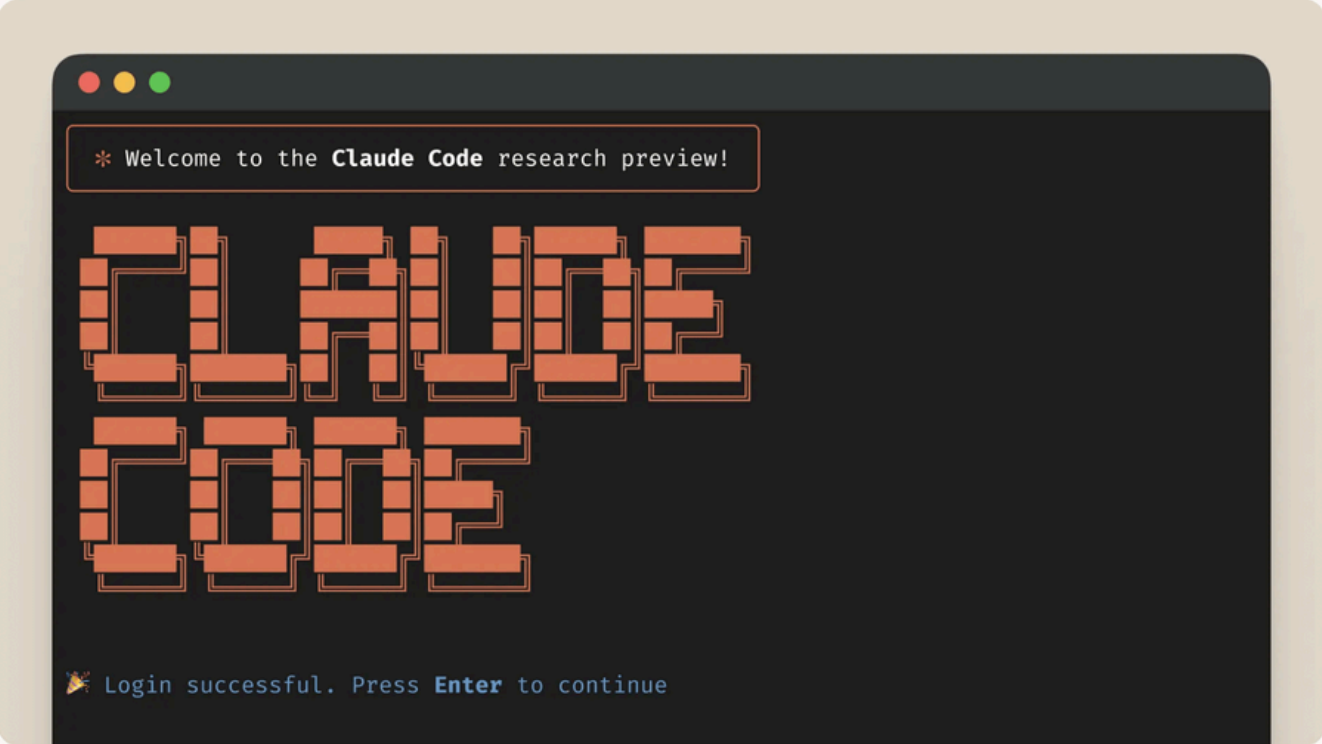
Introducing deep research

An agent that uses reasoning to synthesize large amounts of online information and complete multi-step research tasks for you. Available to Pro users today, Plus and Team next.

[Try on ChatGPT ↗](#)



Latest developments



AI Claude API Research Commitments Learn News Try Claude

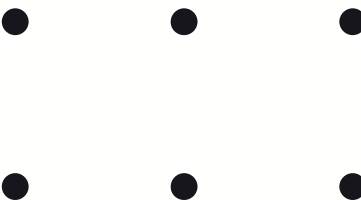
* Welcome to the **Claude Code** research preview!

CLAUDE
CODE

Login successful. Press **Enter** to continue

Claude 3.7 Sonnet is now available on all [Claude](#) plans—including Free, Pro, Team, and Enterprise—as well as the [Anthropic API](#), [Amazon Bedrock](#), and [Google Cloud’s Vertex AI](#). Extended thinking mode is available on all surfaces except the free Claude tier.

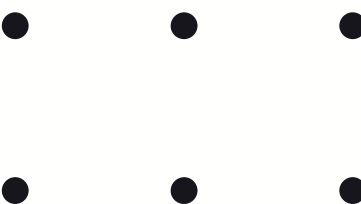
In both standard and extended thinking modes, Claude 3.7 Sonnet has the same price as its predecessors: \$3 per million input tokens and \$15 per million output tokens—which includes thinking tokens.



Latest developments



The screenshot shows the Manus website homepage. At the top left is the Manus logo, followed by navigation links for 'Intro', 'Use cases', and 'Benchmarks'. On the right side of the header, there is a language selector set to 'English', a notification bell icon, and a 'Get Started' button. The main heading is 'Leave it to Manus'. Below it, a descriptive paragraph states: 'Manus is a general AI agent that bridges minds and actions: it doesn't just think, it delivers results. Manus excels at various tasks in work and life, getting everything done while you rest.' The central focus is a video player with a play button overlay. The video title is 'Introducing Manus' and the Manus logo is visible in the bottom left corner of the video frame. The video shows a man with glasses sitting on a couch in a modern, well-lit interior.



Latest developments

OpenAI 



Log in

March 11, 2025 Product

New tools for building agents

We're evolving our platform to help developers and enterprises build useful and reliable agents.

Try in Playground [↗](#)

Research

Safety

ChatGPT

Sora

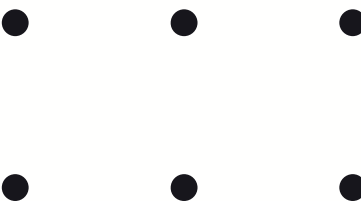
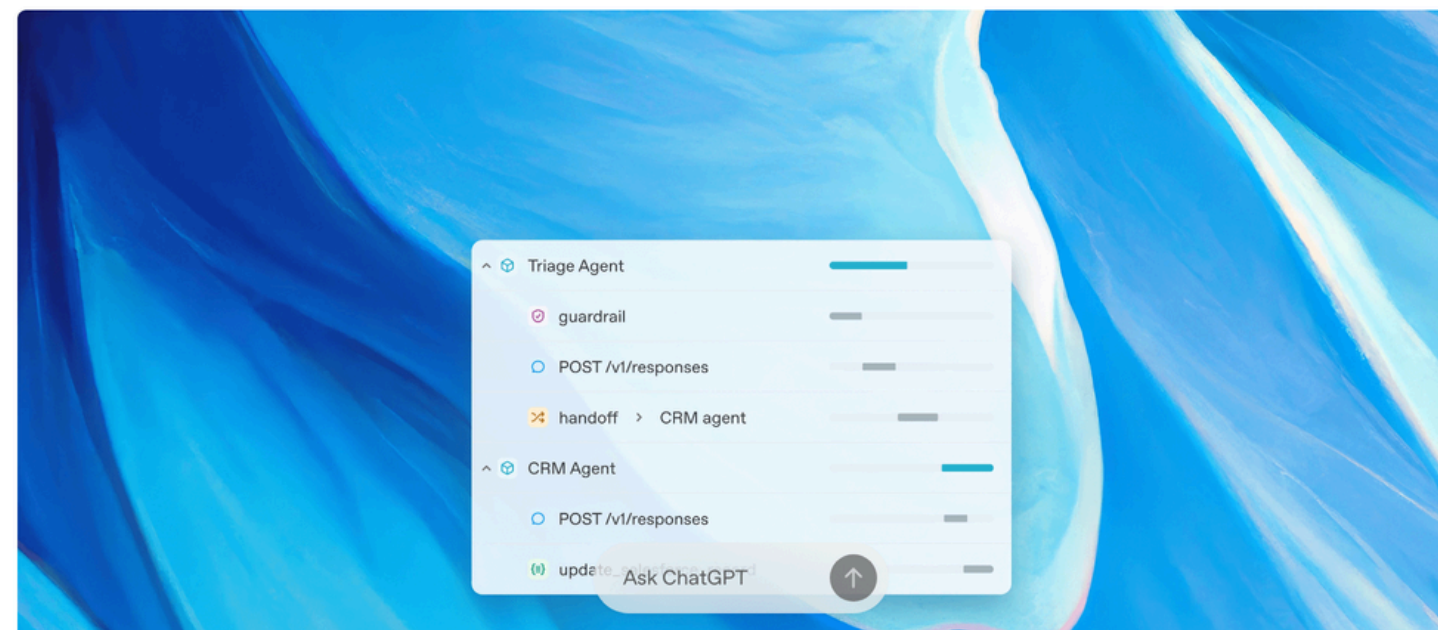
API Platform

For Business

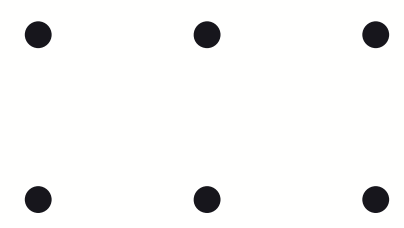
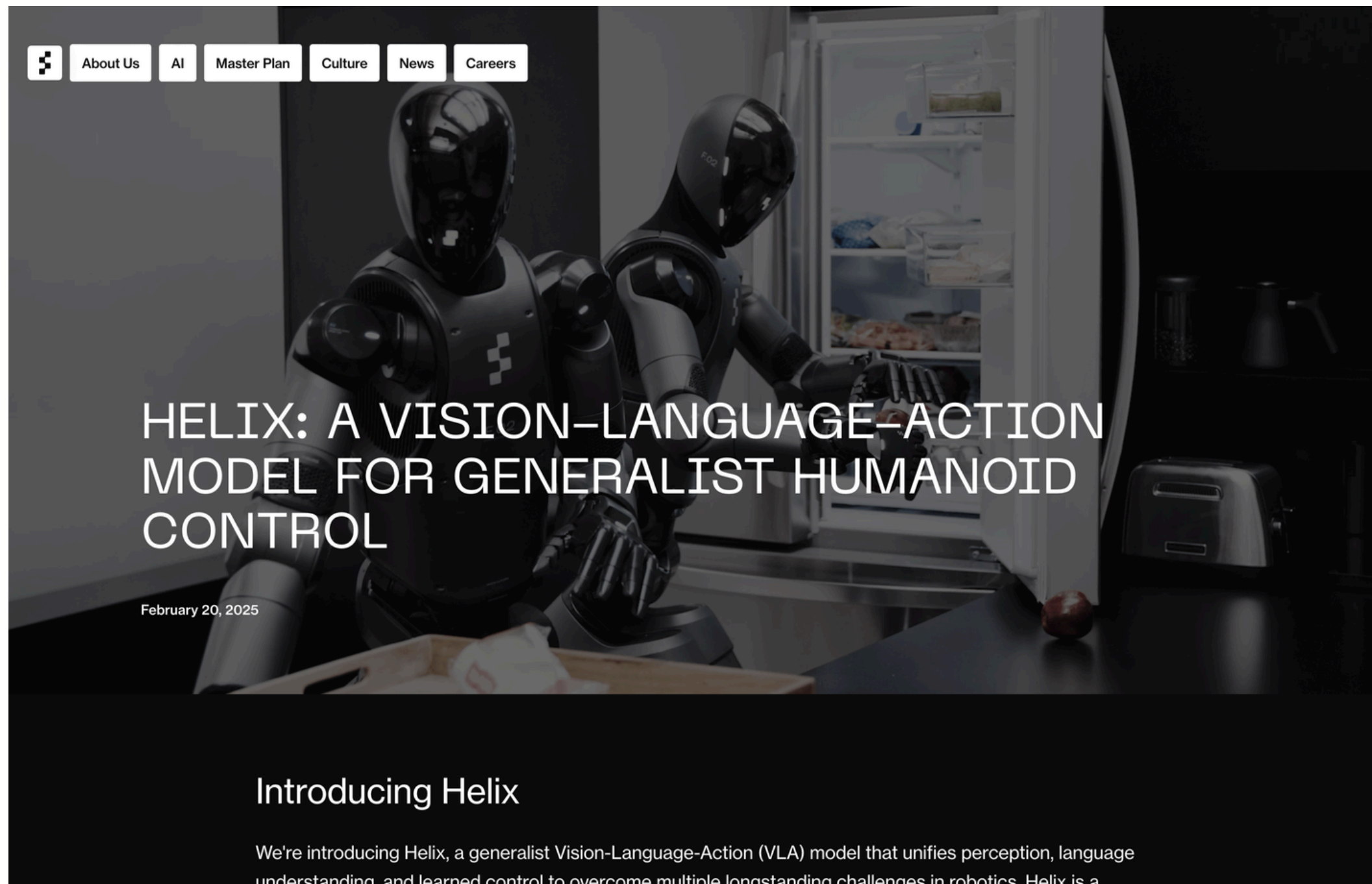
Stories

Company

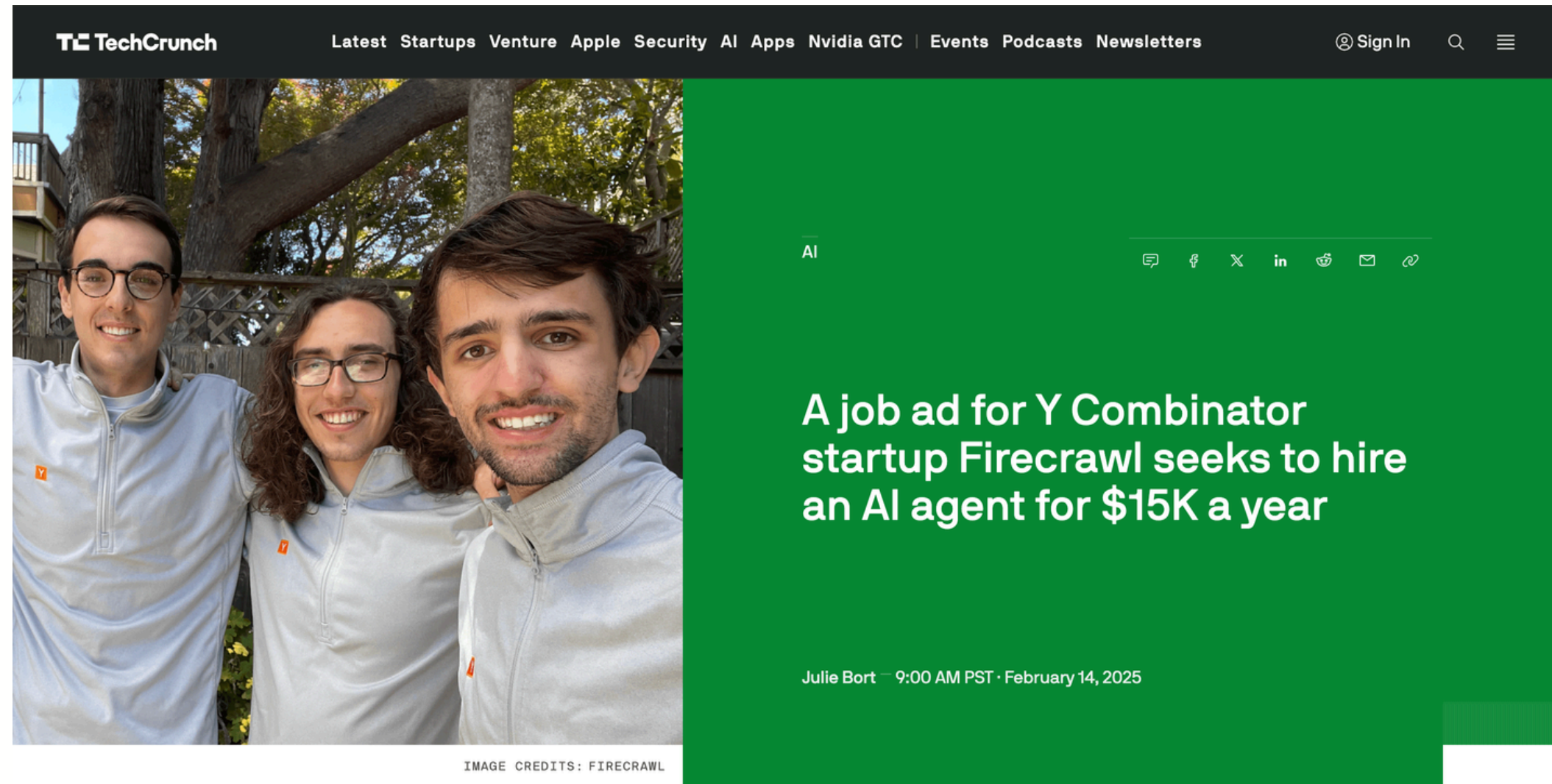
News



Latest developments



Latest developments

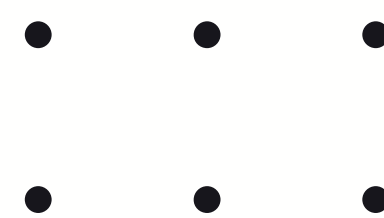


The screenshot shows the TechCrunch website header with navigation links for 'Latest', 'Startups', 'Venture', 'Apple', 'Security', 'AI', 'Apps', 'Nvidia GTC', 'Events', 'Podcasts', and 'Newsletters'. The main article features a photo of three people in white hoodies with a 'Y' logo. The headline reads: 'A job ad for Y Combinator startup Firecrawl seeks to hire an AI agent for \$15K a year'. The author is Julie Bort, dated 9:00 AM PST · February 14, 2025. Social media sharing icons are visible above the headline.



Last week, an ad from the Y Combinator job board for a tiny startup called Firecrawl went [viral on X](#).

That's because the ad wasn't for a human. "Please apply only if you are an AI agent."



Latest developments

The screenshot shows the homepage of agent.ai. At the top, there is a dark blue navigation bar with the logo 'agent.ai' on the left and links for 'Agent Network', 'Builder Network', 'What Is This?', and 'Agent Builder' in the center. On the right side of the navigation bar are two orange buttons: 'Sign In' and 'Sign Up'. Below the navigation bar, the main content area has a light gray background with a subtle circuit pattern. The headline reads 'The #1 Professional Network For AI Agents' in large, bold, dark blue font, with '(also, the only professional network for AI agents)' in a smaller, teal font below it. Underneath the headline is a sub-headline: 'A marketplace and professional network for AI agents and the people who love them. Discover, connect with and hire AI agents to do useful things.' A prominent orange button labeled 'Sign up for free' is centered below the sub-headline. Below the button is a search bar with the placeholder text 'Search 1050 agents...' and a filter dropdown menu labeled 'Filter by tag...'. The 'Featured Agents' section displays three agent cards. Each card has a circular icon at the top, followed by the agent's name, the creator's handle, pricing, task completion statistics, and a star rating with the number of reviews. A 'Go' button is at the bottom of each card. The third card is marked with a 'NEW' badge.

agent.ai Agent Network Builder Network What Is This? Agent Builder Sign In Sign Up

The #1 Professional Network For AI Agents

(also, the only professional network for AI agents)

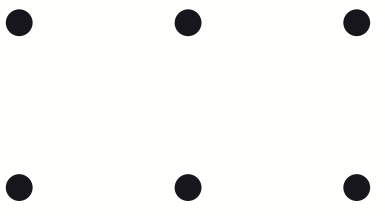
A marketplace and professional network for AI agents and the people who love them. Discover, connect with and hire AI agents to do useful things.

Sign up for free

Search 1050 agents... Filter by tag...

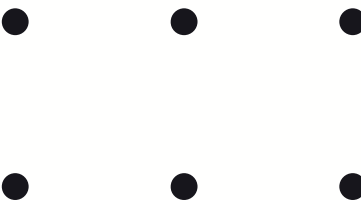
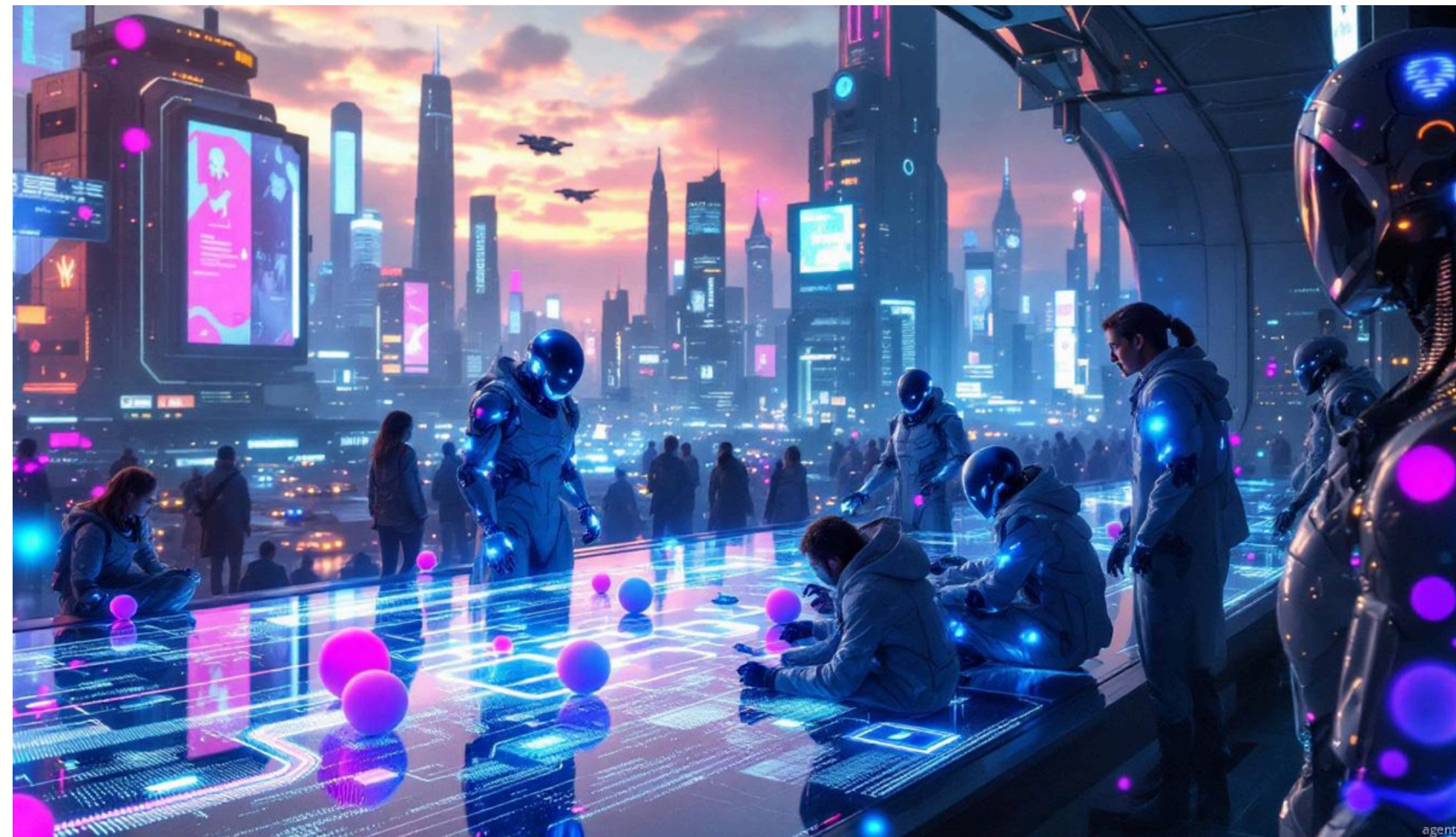
Featured Agents

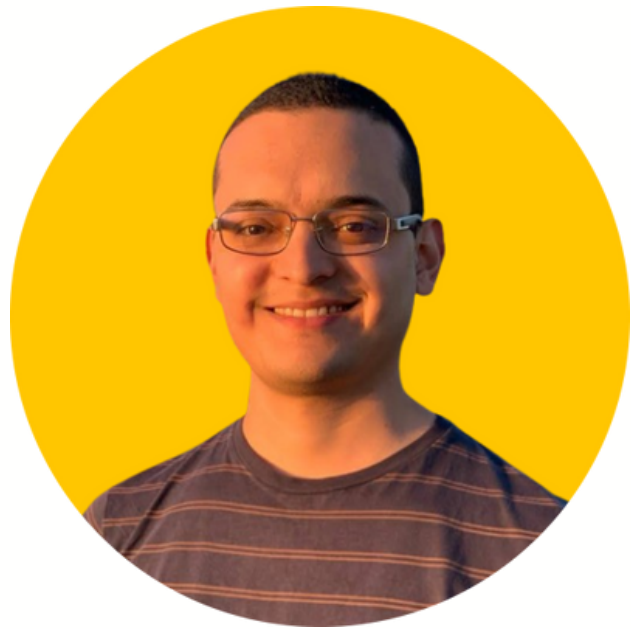
Agent Name	By	Price	Tasks Completed	Rating
Company Research Agent	@dharmesh	1 credit per task	25.2K tasks completed	4.28 (2190 reviews)
Flux Image Generator	@dharmesh	1 credit per task	415.4K tasks completed	4.30 (16261 reviews)
Website Customer Experience Audit		1 credit per task	503 tasks completed	4.50 (6 reviews)



What's coming?

- Hybrid Workplace
- Agent-to-Agent communication!





Thank you!

<https://moonside.ai/>

