



Democratizing AI: How to Build Intelligent Agents Without Writing Code

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Agenda

- Intro to AI Agents
- AI Agent Types
- No Code AI Agent Tools
- LangFlow



Is ChatGPT an LLM or an Agent?

ChatGPT Back in the Day!

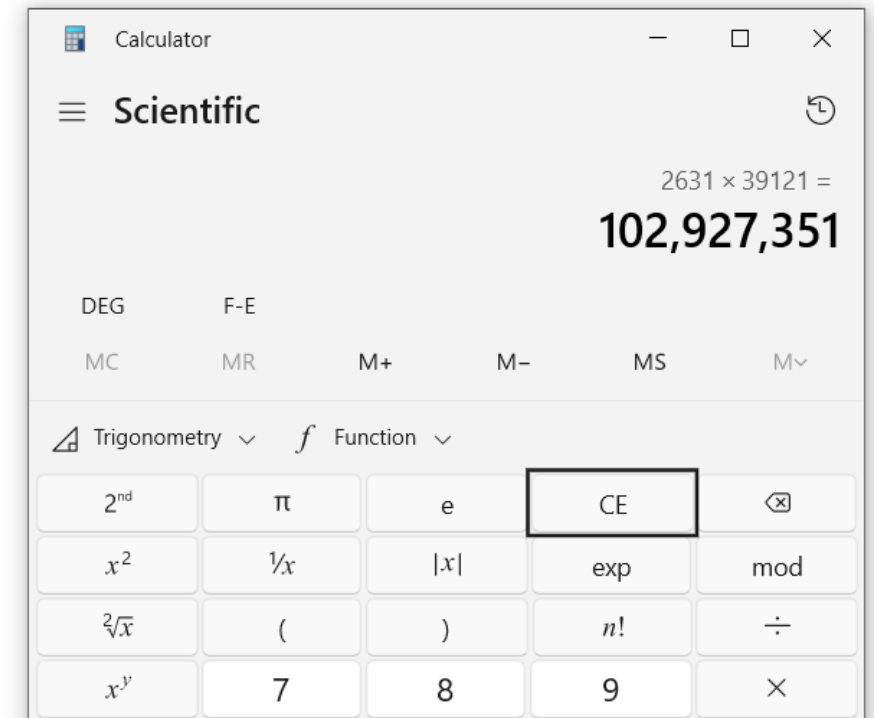
ChatGPT 3.5 ▾

You
What is the result of 26 multiplied by 25?

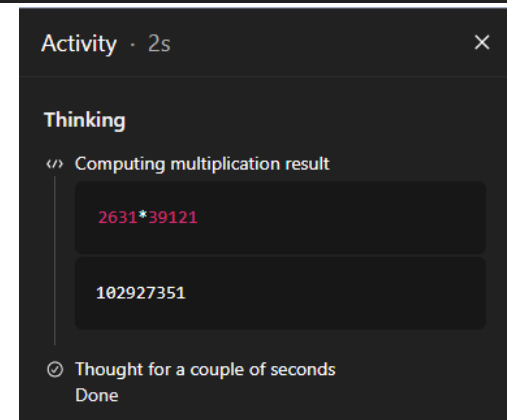
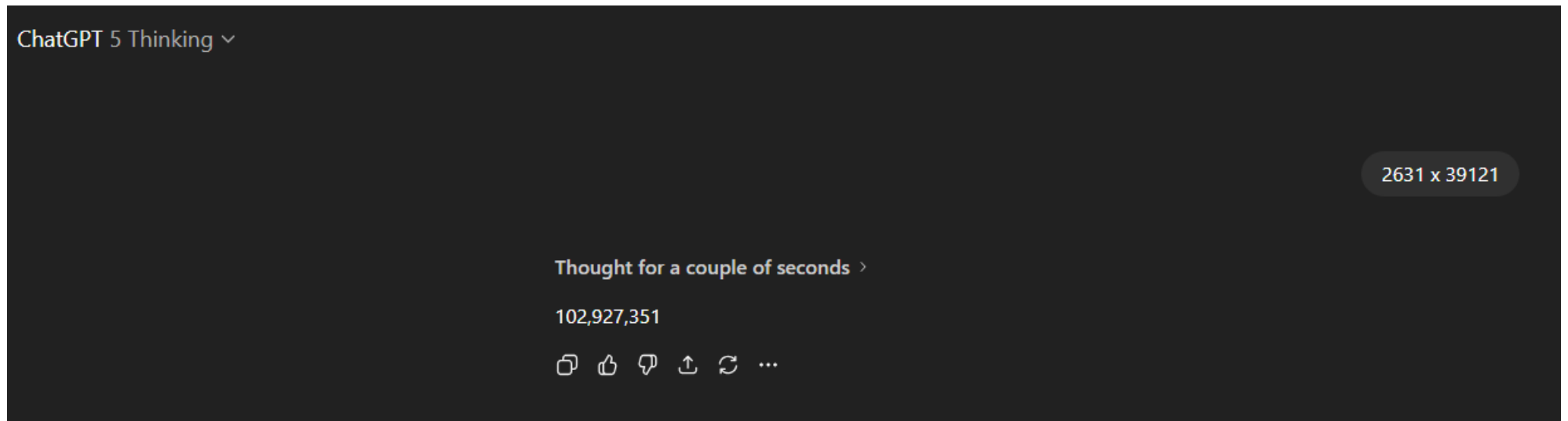
ChatGPT
26 multiplied by 25 equals 650.

You
What is the result of 2631 multiplied by 39121?

ChatGPT
The result of 2631 multiplied by 39121 is 103,034,151.
📄 👍 ↻



ChatGPT 5 – In Action





Other LLM Limitations

LLMs are not perfect! Keep in mind the following limitations when using LLMs:

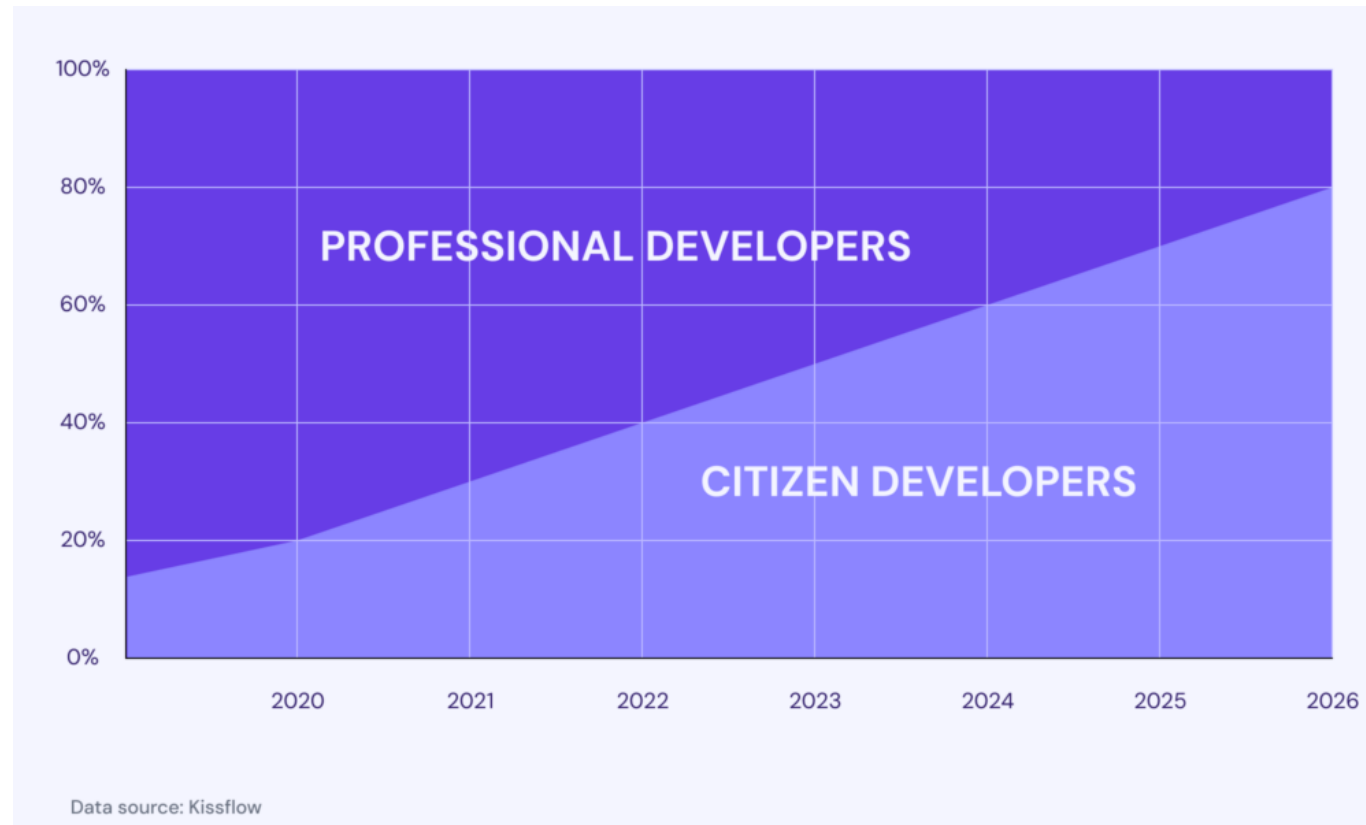
- **Knowledge Cutoff:** LLMs are limited to the training date.
- **Inability to take actions:** Large language models are not equipped to execute interactive tasks such as searches, calculations, or data retrievals, which considerably restricts their capabilities.



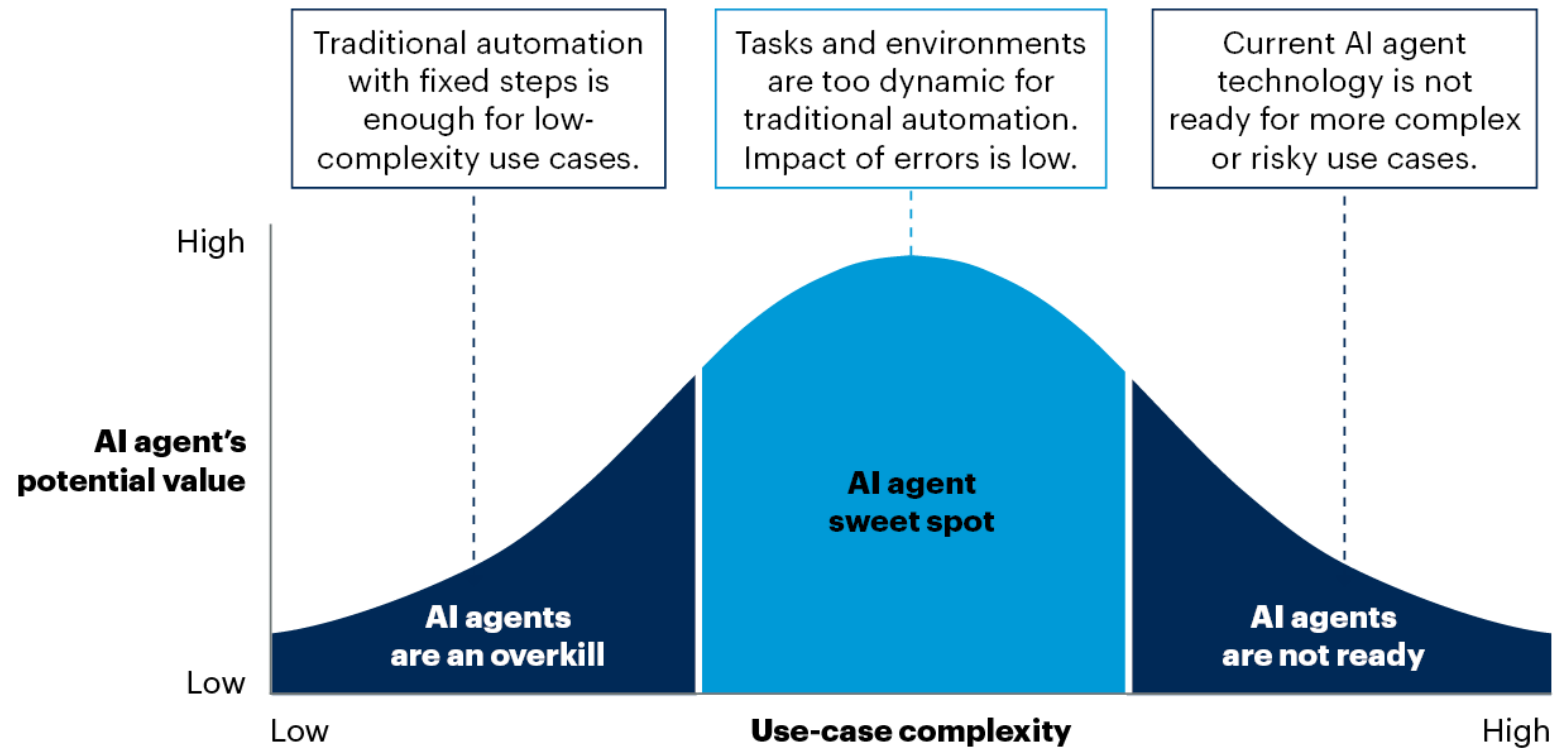
AI Agent Predictions

- “Companies using AI agents have seen a more than 40% increase in case resolution rates compared to traditional bots”, Datagrid.
- “Demand for citizen developer apps is growing 5x faster than IT can handle”, Hostinger.
- “Low-code is considered strategically important by 81% of companies”, Hostinger.
- “By 2028, at least one-third of business decisions will be made semi-autonomously or autonomously with the help of AI agents, up from less than 1% today”, Gartner.
- “By 2028, 40% of services (primarily B2C but increasingly B2B) will be AI-augmented, with potential premiums for human-driven options”, Gartner.

AI Agent Predictions – Cont'd



AI Agents Sweet Spot

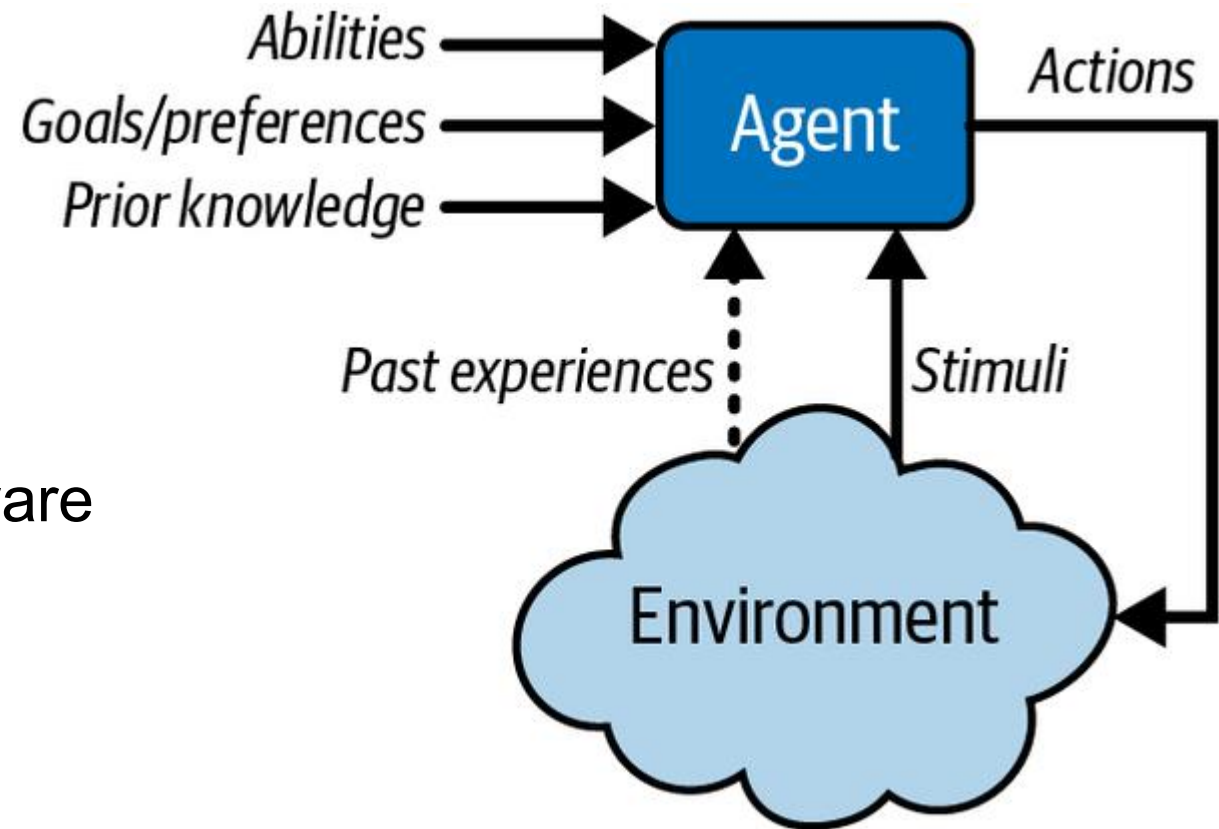


Source: Gartner

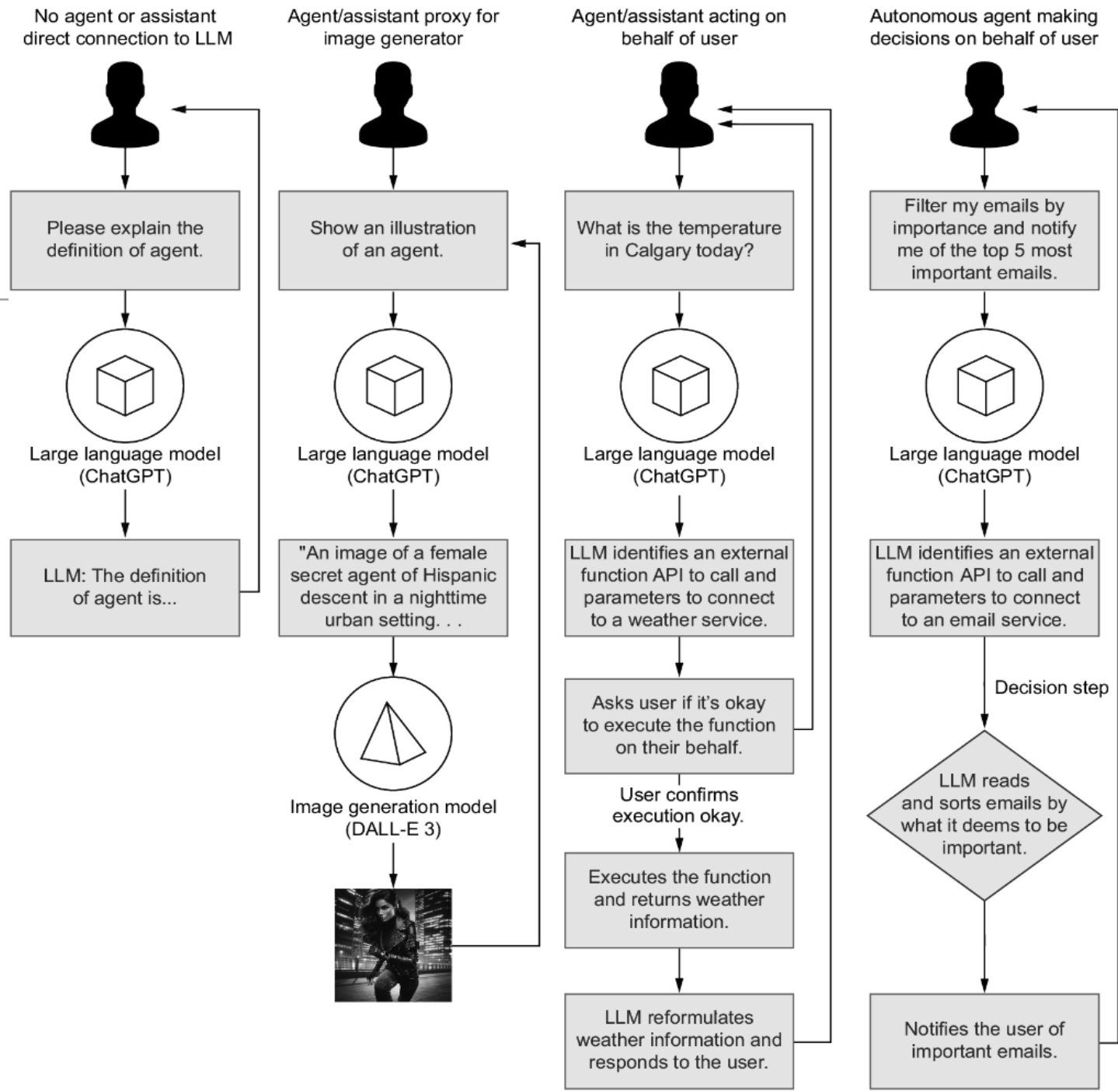
But .. What are AI Agents?

AI Agents combine two aspects:

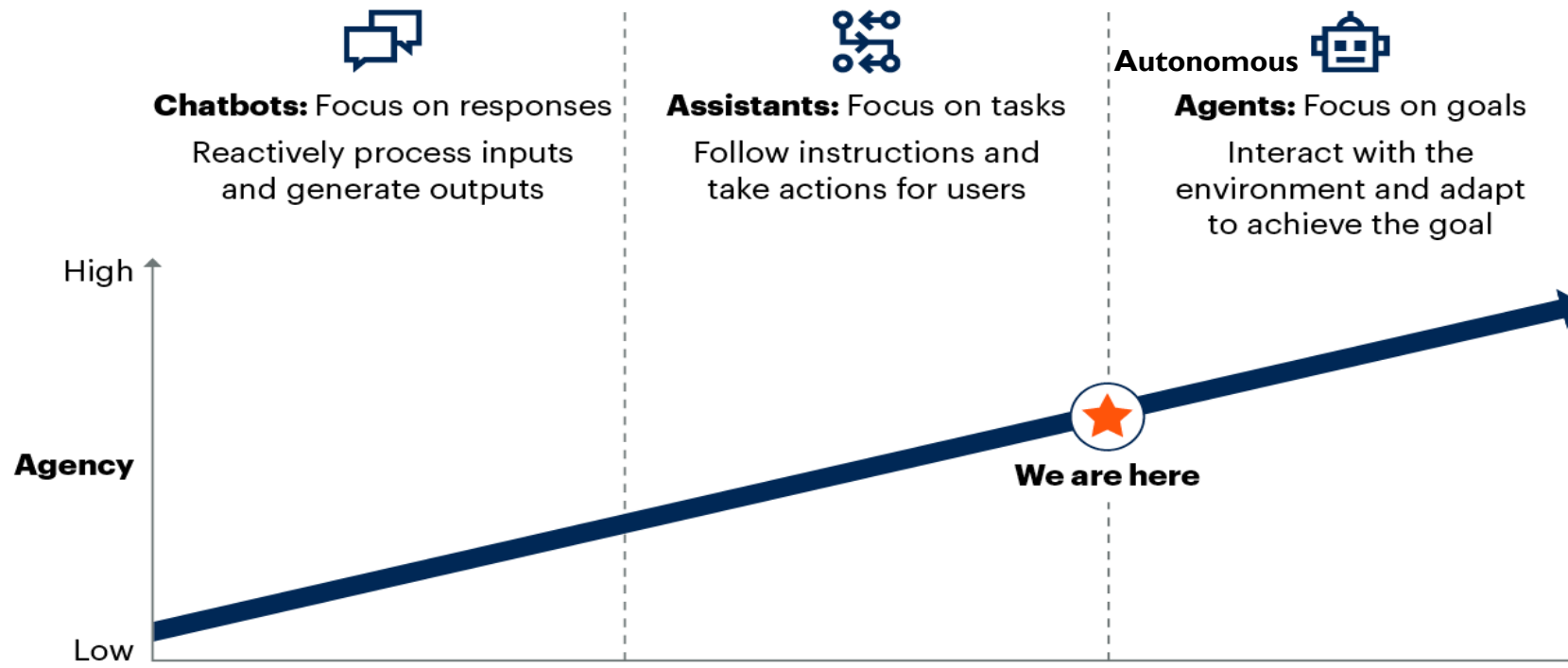
1. Intelligent entity capable of active decision-making and continuous learning.
2. Automated application or software designed to perform tasks on behalf of a user.



Agent Types

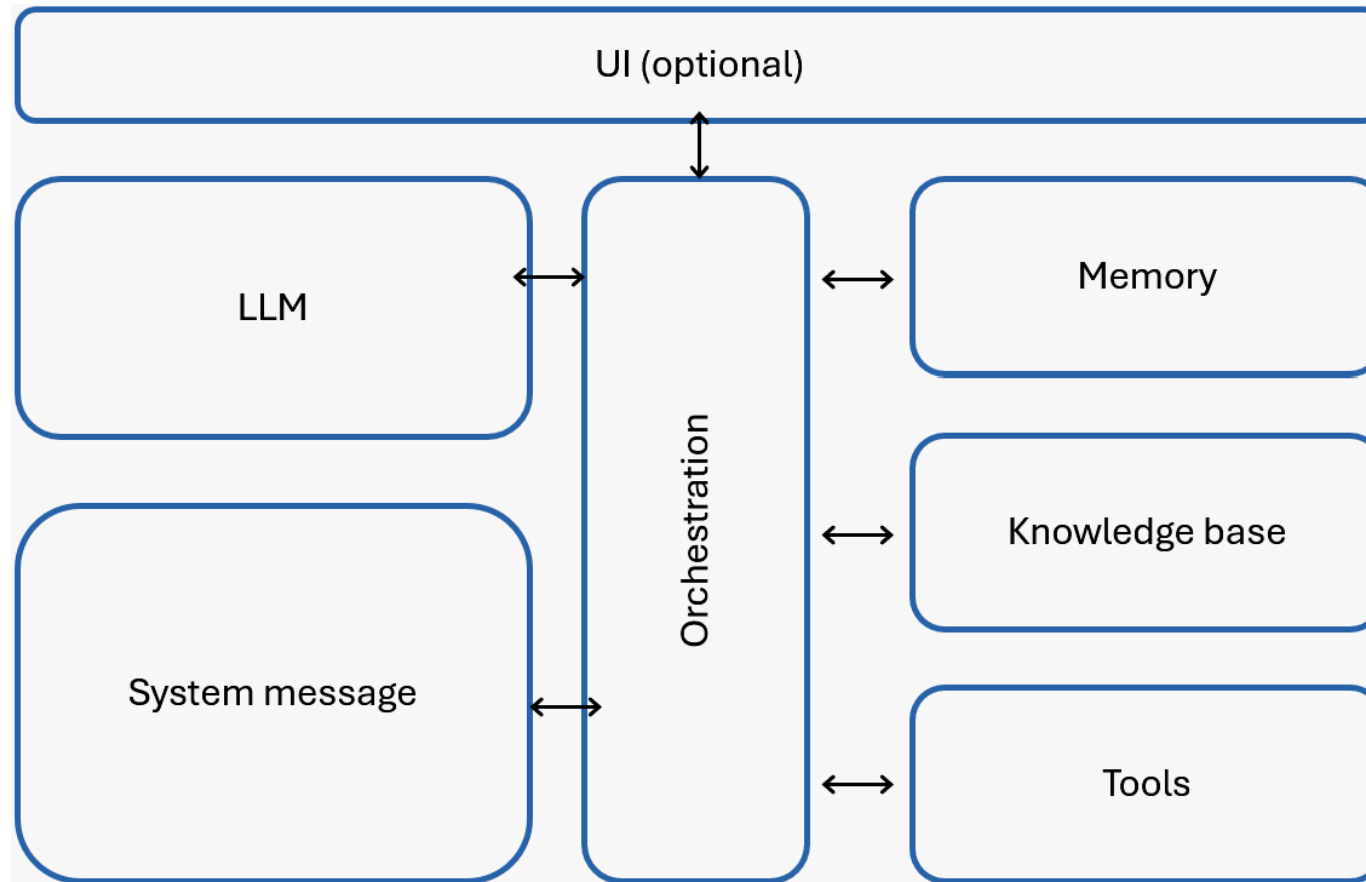


Current State of Enterprise-AI Agents

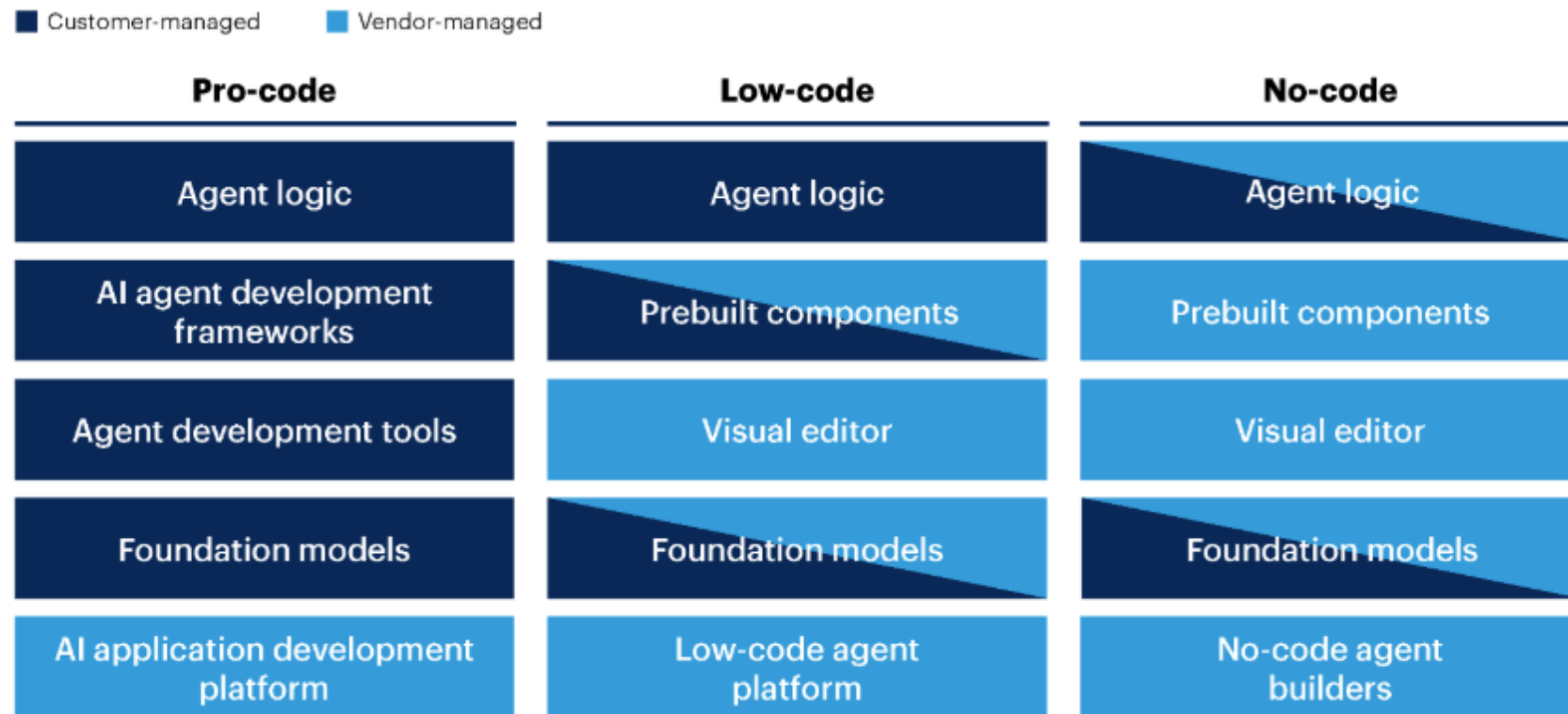


Source: Gartner

Anatomy of AI Agents



Building AI Agents – Tech Stack Options



Source: Gartner

No-Code Agent Builders (NCAB) – Tech Options

Platform	Customer Support	Internal Automation	Sales/Marketing	Data Analysis/BI	Broad 3rd-Party Integrations	Self-Host Option	True No-Code for Non-Tech	Open-Source	Strong Enterprise Compliance
Microsoft Copilot Studio	✓	✓	✓	✓	✓	✗	✓*	✗	✓
Salesforce Agentforce	✓	✓	✓	✓	✗*	✗	✓	✗	✓
Google Vertex AI (Gen App Builder)	✓	✓	✓	✓	✗	✗	✗	✗	✓
IBM watsonx.ai (Agent Lab)	✓	✓	✓	✓	✗	✓	✗	✗	✓
Relevance AI	✓	✓	✓	✓	✓	✗	✓	✗	✓
n8n	✓	✓	✓	✓	✓	✓	✗	✓	✗
Stack AI	✓	✓	✓	✓	✓	✗	✓	✗	✓
Langflow	✓	✓	✓	✓	✓	✓	✓	✓	AstraDB Only



Intro to LangFlow

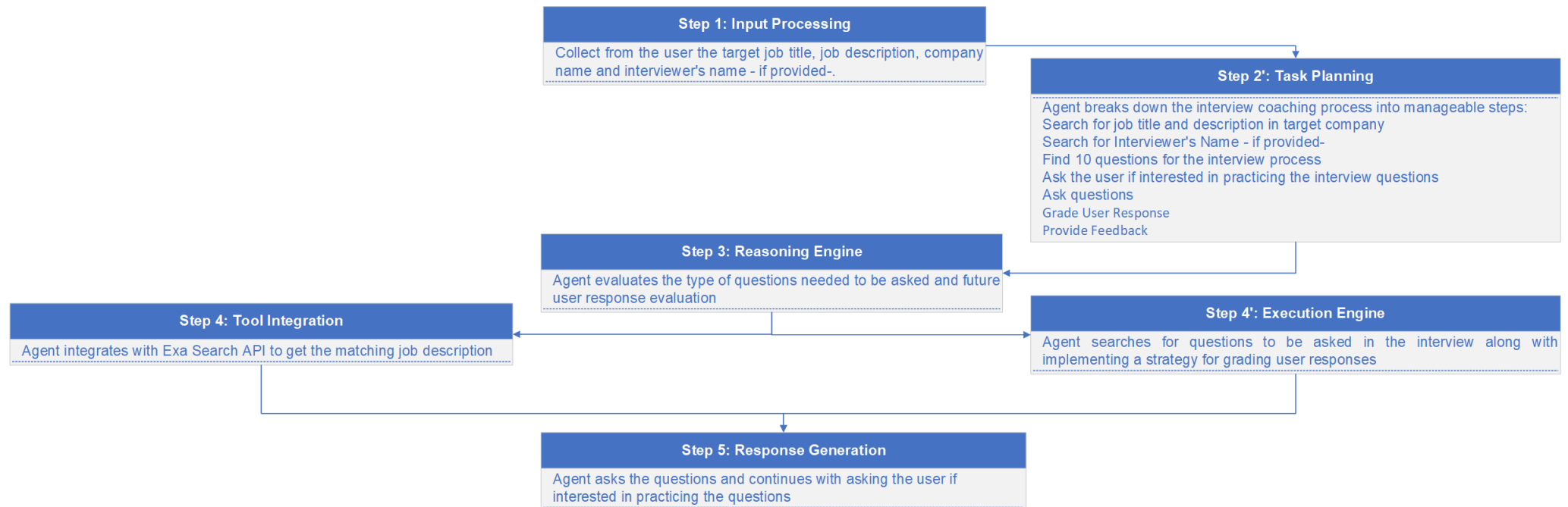
- Open-source No-code Agent Builder.
- Designed for building and managing language model workflows via Drag-and-drop interface.
- Visual interface for creating AI-driven applications with the ability to leverage pre-built templates and components
- Integrates with various language models and tools (e.g., OpenAI, Vertex AI, HuggingFace, Web browser UI)
- Sign-up to use it via this URL: <https://www.datastax.com/>



Demo

AI Agent Example

- Let's Build an AI Agent that can help you practice interview questions for a target job based on job title, description, company and interviewer – if applicable-.



AI Agent Execution

- Import the Interview_Prep_AI_Agent.json found on GitHub
- Generate Exa Search API Key: <https://exa.ai/>
- Update the Exa Search API Key and Google AI Studio Key
- Start using the agent!

**Questions
&
Thank You!**

