

What is LMStudio?

LMStudio is a powerful software that lets you run Large Language Models (LLMs) locally on your computer. This provides a private, controlled alternative to cloud-based AI services.

LMStudio offers cost-free experimentation with LLMs, supporting local server functionality for seamless integration with applications like **AutoGen Studio**. Its intuitive interface also allows direct chat with models, making it ideal for testing and exploration.

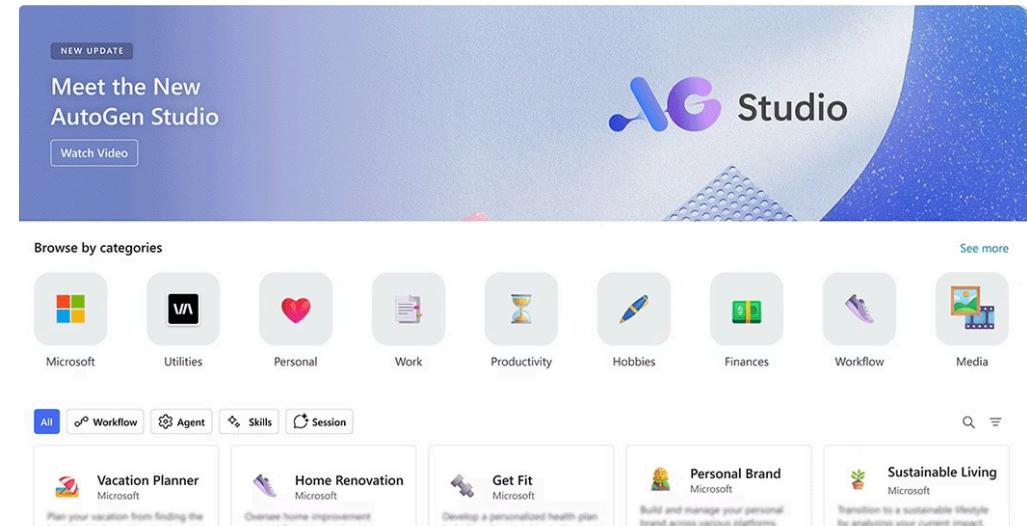


What is AutoGen Studio?

Developed by Microsoft, AutoGen is a powerful framework that simplifies building advanced AI applications by intelligently orchestrating and integrating Large Language Models.

Key Characteristics

- Multi-Agent Orchestration:** Build and manage complex conversations between multiple AI agents
- Seamless Integration:** Incorporate LLMs, human feedback, and external tools effortlessly
- Microsoft Support:** Backed by Microsoft for long-term viability and continuous development



AutoGen Studio: Visual AI Agent Development

AutoGen Studio is a web-based platform that transforms how you interact with AI agents. It provides an intuitive visual interface for prototyping and testing agent-driven solutions, dramatically reducing the need for extensive coding expertise.



Visual Prototyping

Design and orchestrate agent workflows through an intuitive drag-and-drop interface



No Coding Required

Create complex agent behaviors without programming skills—perfect for rapid experimentation



Versatile Model Support

Integrate various language models, from OpenAI to local open-source alternatives

Getting Started: Installation & Launch



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Install AutoGen Studio

```
pip install autogenstudio
```

Run AutoGen Studio

```
autogenstudio ui
```

After running the command, open the provided URL (typically <http://127.0.0.1:8081>) in your web browser to access the interface.



Overview of AutoGen Studio Interface

AutoGen Studio offers a web-based interface for designing, managing, and running multi-agent applications, structured into four main sections for various development stages.



Gallery

Central hub for managing reusable components and building blocks

Team Builder

Visual canvas for constructing and modifying agent teams

Playground

Interactive environment for testing and executing agent teams

Deploy

Options for operationalizing your agent teams in production

Team Builder

Teams 1 [New Team]

Recents
Default Team_17391
team 1 agent
just now

From Gallery
Default Team_17391
team 1 agent

Web Agent Team (Operat...
team 3 agents

Deep Research Team
team 3 agents

Create a new team from a gallery template

Toggle between visual builder and JSON mode

Drag in items from the Component Library

Click on the edit icon to edit nodes

Test teams interactively

Maintained by the AutoGen Team.

v0.4.1

The Gallery: Your Component Library

The Gallery serves as the central hub in AutoGen Studio for managing all reusable components. The "Default Component Gallery" organizes these essential building blocks into specialized tabs, each containing pre-configured elements ready to use in your projects.

01

Teams Tab

Pre-configured groups of agents working together
(default: Round Robin, Selector)

02

Agents Tab

Core entities that communicate, use models, and execute tools to achieve goals (default: Assistant Agent, User Proxy, Web Surfer Agent)

03

Tools Tab

Python functions extending agent capabilities for specific actions or external interactions (default: Calculator, Image Generation, Fetch Webpage, Bing Search, Google Search, Python Code Execution)

04

Models Tab

LLMs providing reasoning and language capabilities—the "brains" of an agent
(default: OpenAI, Mistral, Anthropic Claude, AzureOpenAI)

05

Terminations Tab

Defines criteria for when a team's task or conversation should conclude, including text detection, message limits, and logical combinations

- Each component defined in the Gallery can be selected and assembled in the Team Builder to create powerful agent workflows.