Creating and Using Tools in Autobien Agents

In autogen, agents powered by large language models can perform reasoning, interact with one another and solve complex tasks. LLMs are not inherently capable of performing actions like querying a database, calling APIs or doing calculation. To bridge this, we use python functions as tools. Tools are simply Python Function -1 bat agents call as part of its reasoning. They are not just static functions, they represent interactive capabilities.

Autogen uses a special decorator called @register-function to make functions visible to agents. This.

- . Registers the function globally within agent ecosystem.
- · Allows autogen to automatically extract:
 - · Function name
 - · Arguements types
 - · Description
- . LLM agents plants when and how to use the tool.

The LLM interpreteds—the task, matches it a tool based on its name and description and autonomously forms and executes the appropriate function call.

Different from plain function calling, In autogen, the agent, not the developer, decides when and now to call functions. Key advantages are tools add modularity, reusability and external access to agents.