

Creating Intelligent AI Agents with Open Source LLMs

About Me

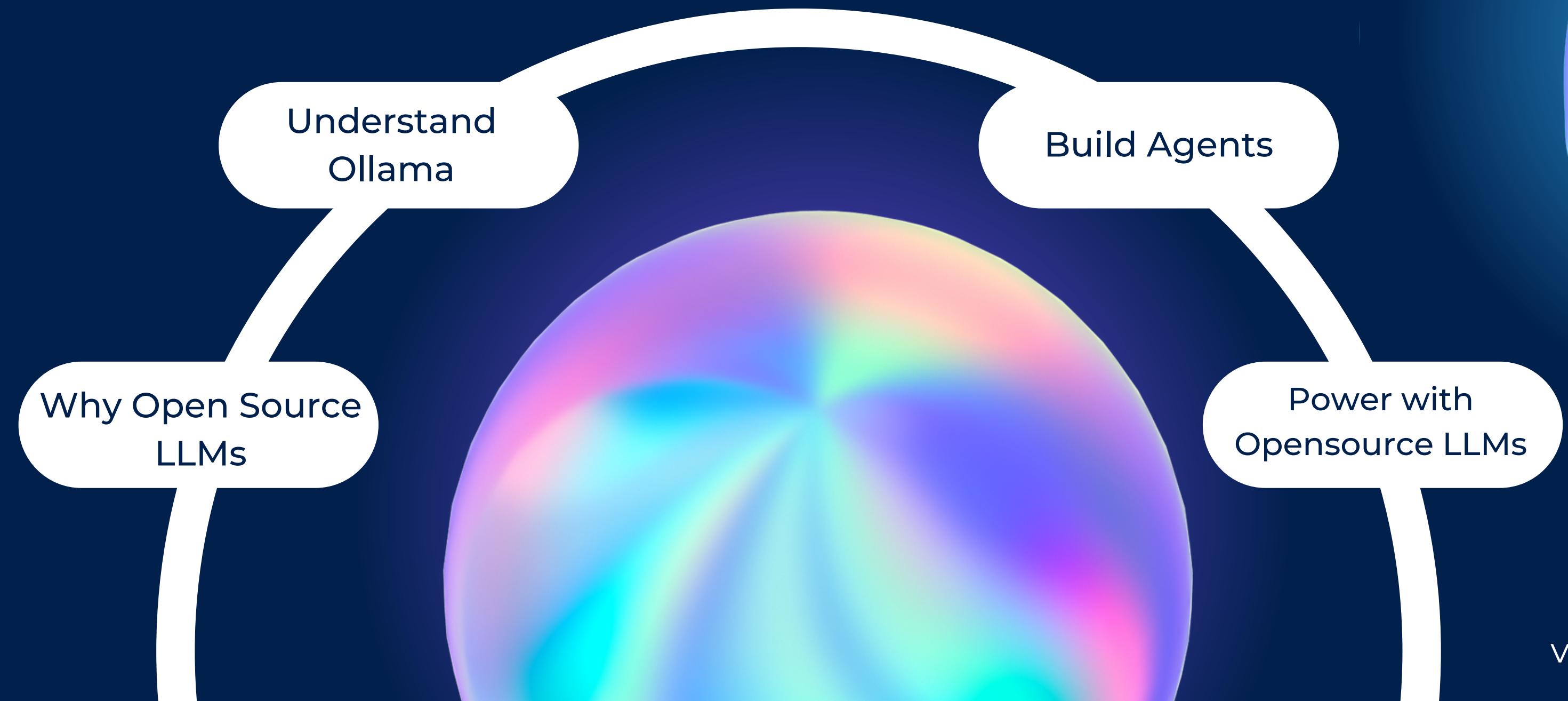


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- Beta Microsoft Learn Student Ambassador
- Community Manager at Microsoft Student Community Hyderabad
- Member of FAIght Club
- Pursuing Bachelor's in Technology, CSE
- Passionate about technology, community, and innovation

Agenda



Why Open-Source LLMs

- They are free to use and modify according to your needs, without paying any license fee
- This includes deploying the LLM to their own infrastructure and fine-tuning it to fit their own needs.
- Hugging Face, the best provider of Open source Models
- Mistral, llama2, gemma

Ollama

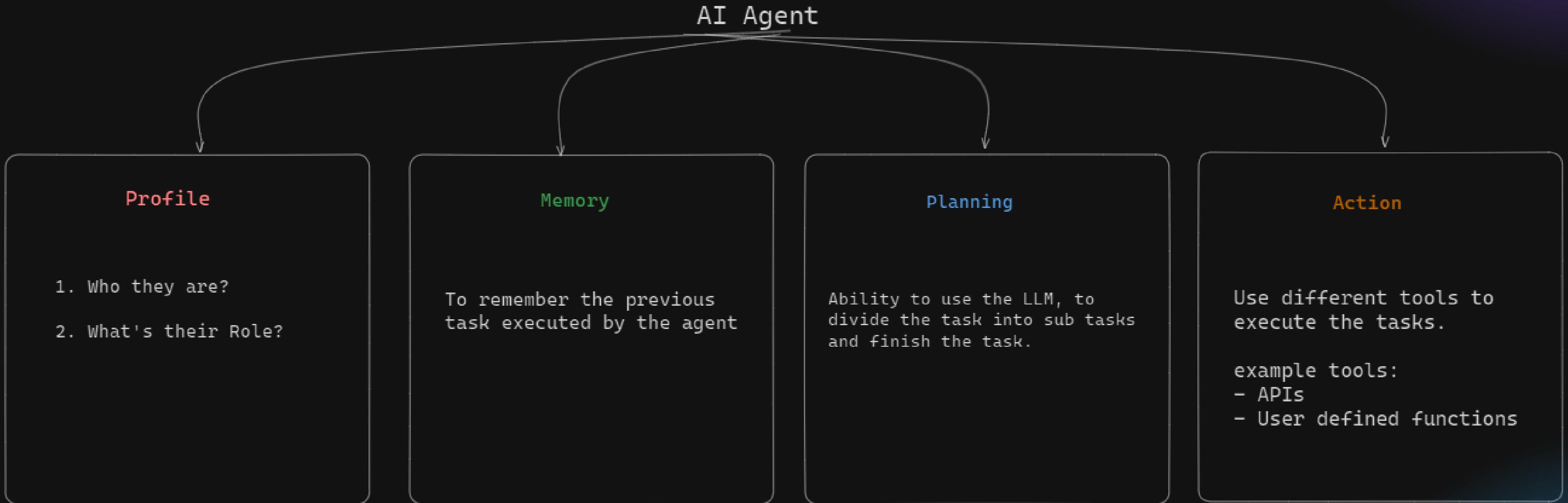
- Ollama is a tool that helps us run large language models on our local machine and makes experimentation more accessible.

**Isn't this just a lot to
take in and remember?**

**Lets do some hands on
with Ollama..**

Agents

- AI programs that can make decisions and take actions on their own.
- They can improve with limited information, learn and adapt to new situations, generate new ideas, and communicate with humans more naturally.



Standard Prompting

Model Input

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: The answer is 11.

Q: The cafeteria had 23 apples. If they used 20 to make lunch and bought 6 more, how many apples do they have?

Model Output

A: The answer is 27. 

Chain-of-Thought Prompting

Model Input

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: Roger started with 5 balls. 2 cans of 3 tennis balls each is 6 tennis balls. $5 + 6 = 11$. The answer is 11.

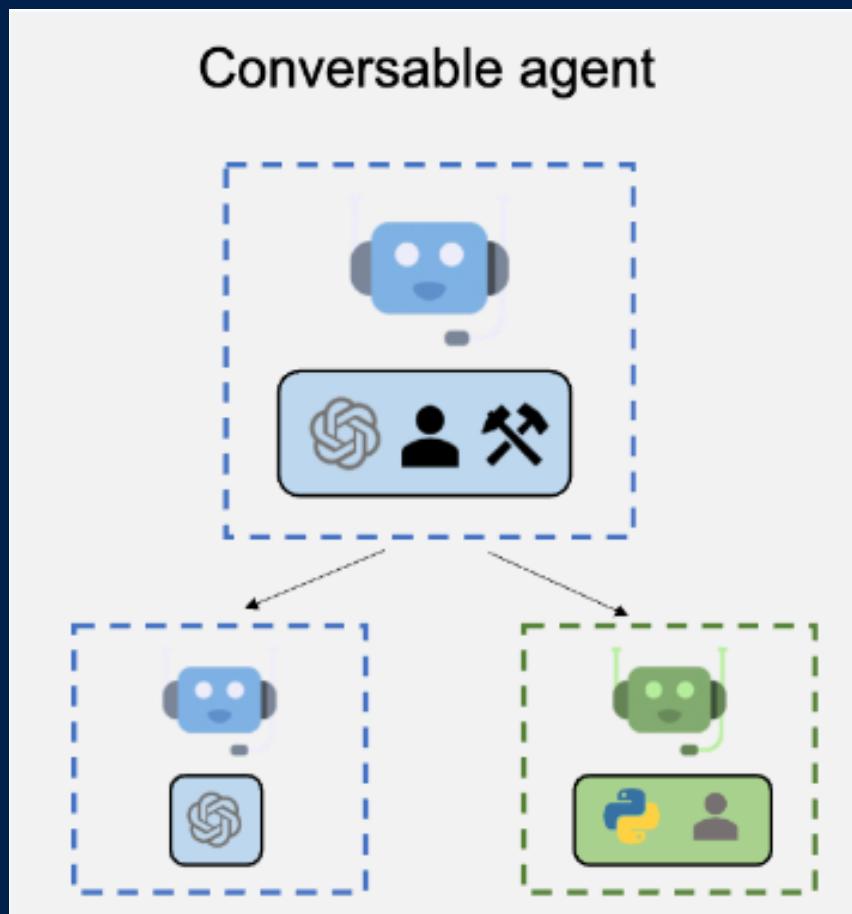
Q: The cafeteria had 23 apples. If they used 20 to make lunch and bought 6 more, how many apples do they have?

Model Output

A: The cafeteria had 23 apples originally. They used 20 to make lunch. So they had $23 - 20 = 3$. They bought 6 more apples, so they have $3 + 6 = 9$. The answer is 9. 

Autogen

- A framework that enables development of LLM applications using multiple agents that can converse with each other to solve tasks.





**Lets Build Some
Agentssssssssssssss...**

Discussion!

Thank You



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