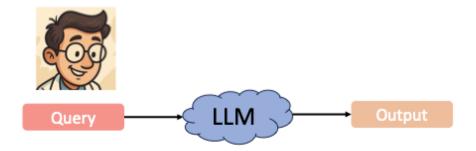
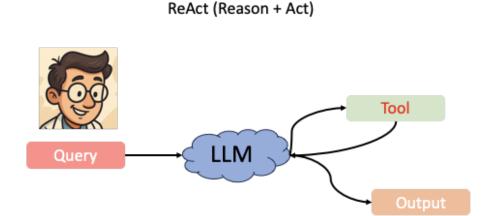
Large Language Models (LLMs)

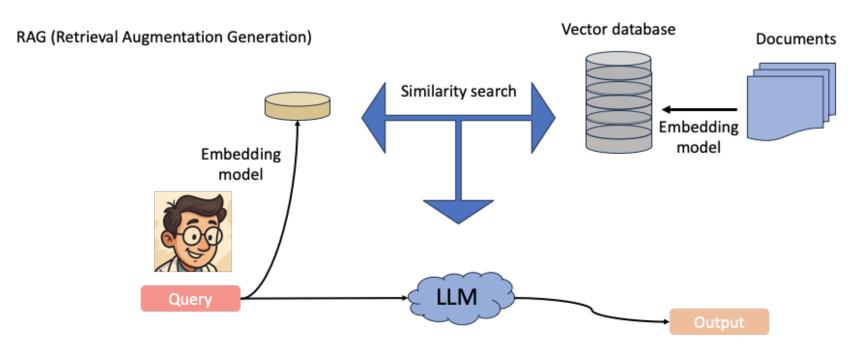


Al Agents

All agents are autonomous or semi-autonomous computational entities designed to perceive their environment, process information, and take actions toward achieving specific goals.



Al Agents



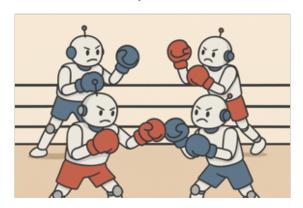


Multi-Agents: behavior

Collaboration



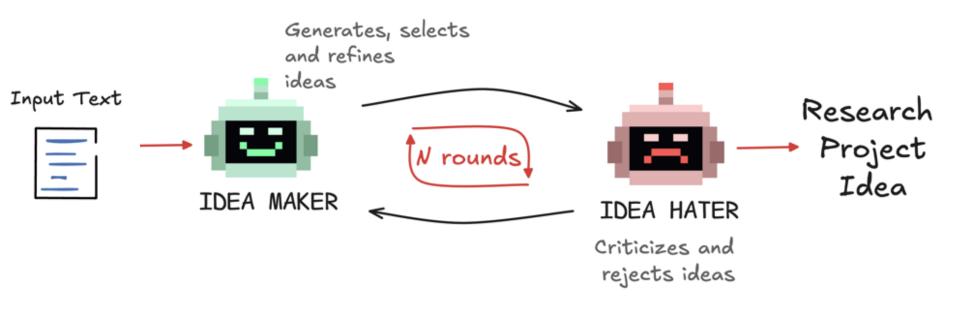
Competition



Multi-Agents in Science

- Literature search and summarization
- Generate hypothesis
- · Experiment design
- Data analysis and interpretation
- Code generation
- Cross-domain reasoning and integration
- Writing papers
- Critique and refinement

Agentic system



LangGraph

<u>Agents</u>	Graph State	Computational Graph
TaskInputOutput	Centralized register for messages Used to manage communication among agents Set agent context and memory	Set system workflow. Can be static or dynamic start hater