

AI Agents

Intro

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Traditional LLM Apps vs. Agentic LLM Apps

- Traditional LLM Apps: zero-shot workflow.
- Agentic LLM Apps: iterative workflow.
 - Better results.
 - Slower performance.
 - Higher costs.

Real Examples of Advanced AI Agents.

- Klarna, Customer Service Agent.
- Devin, Software Development Agent.
- Sima, Game-Playing Agent.

Main ways to use AI Agents today

- Reflective Agents.
- Tool-using Agents.
- Planning Agents.
- Multi-Agent Collaboration >> Multi-Agent LLM Apps.

Reflective Agents

- Create, review, improve.
- Increasingly robust technology.

Tool-Using Agents

- Select from a number of given tools.
- Increasingly robust technology.

Planning Agents

- Design the plan to achieve a goal.
- Emerging technology.

Multi-Agent Collaboration

- Several agents with different roles collaborating among them.
 - Multi-Agent LLM Apps.
- Emerging technology.
- Huge potential: Future of AI Apps?

AI Agents: What is coming

- Adding agentic behavior improves the performance of traditional LLM Apps.
- AI Agents multiply the number of possible LLM Apps.
- Agentic Apps are slower than traditional apps.
- Human-In-The-Loop is still necessary/desirable in most cases.
- Possibilities of AI Agents will increase with memory improvements.
- Careful: AI Agents and Privately-Owned LLM Cost.
 - Opportunity for Open Source LLMs.