AI Agents

OpenAI vs. LangChain: Closed vs. Open Agents

Contents

OpenAI’s Closed Agents

- Nov 2023: OpenAI’s GPTs and Assistants API.
- OpenAI is betting on agentic apps.

Cognitive Architectures

- LangChain has identified 5 types of cognitive architectures for LLM Apps.
- The Agentive Architecture is the most advanced type.

What do AI Agent Apps look like?

- Loop: keep trying until you find a satisfactory response.

Agentic Architecture and Professional Applications

- The OpenAI bet is significant.
- Professional-Level Agents: Klarna, Devin, Sima.
- Agentic Apps are in different degrees of maturity.
  - Reflective: mature enough.
  - Tool-using: mature enough.
  - Planning: emerging.
  - Multi-Agent LLM Apps: emerging.

Current Agents differ in 2 key aspects

- Context can be provided via pulling (agent decides what context it needs) or pushing (developer decides what context the agent uses).

Closed vs. Open Agents

- Closed Agents (OpenAI’s GPTs and Assistants API): you do not know what is going on under the hood. They are “black boxes”.

- Open Agents (LangChain): developers have much more control.
  - Configuration..
  - Tracking.
  - Performance.
  - Differentiation, customization.
  - Scalability.

LangChain’s Open Agents

- LangChain is betting on an Open Architecture to build agents.

LangChain’s OpenGPTs

- An Open Source attempt to recreate the same experience as OpenAI’s GPTs and Assistants API.
  - Configurable.
  - Different model providers.
  - Retrieval method can be modified.