

Multi-Agent LLM Apps

Intro to CrewAI

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What is CrewAI?

- Open Source Framework to build Multi-Agent LLM Apps.
- Built on top of LangChain.
- Can be used with LangChain.

Naming conventions: Agents and Automations

- Same meaning.

How to design a Multi-Agent LLM App

- Key: conceptual understanding of the real multi-agent network.

What Enterprise customers want

- Multi-Agent LLM Apps easy to use and fully compliant.

Main use cases of Multi-Agent LLM Apps with CrewAI

- Sales.
- Prospecting.
- Content Marketing.

Use case draft: Multi-Agent LLM App for HR Recruiter

- The first agent reads candidate email and decides if it is worthy to engage or not.
- Once a candidate resume has been accepted, the second agent verifies if the resume information is truthful and if there is any other relevant info in her profile.
- Once a candidate profile has been verified, the third agent adds a scoring to the candidate profile.

Levels of a Multi-Agent LLM App

- Recommendation: do not create Multi-Agent LLM Apps with too many hierarchy levels.

Recommendations about LLMs

- Important: Each agent of the Multi-Agent LLM App can use a different LLM.
- OpenAI: once you scale, very expensive.
- Open Source LLMs: lower quality, but a lot cheaper.
 - We will see an easy way to use Open Source LLMs next
 - Open Source LLMs + Finetuning + Locally run can elevate performance, but finetuning is still too complex to build and maintain. Most experts are not recommending it.

CrewAI Quickstart and Documentation

- The best Quickstart will be to re-create the previous LangGraph project using CrewAI.
- After this basic project, we will show a very detailed Level 3 CrewAI projects in 9 parts.
- To go deeper into CrewAI, go to the CrewAI Documentation.