LLM Apps
Orchestration Frameworks

Main orchestration frameworks

- LangChain.
- LlamaIndex.

LangChain

- Open source.
- Facilitates interaction with one or more LLMs.
- Multitude of features, from the simplest to the most sophisticated such as load balancing, fault tolerance, and security.

LlamaIndex

- Open Source.
- Many functionalities similar to LangChain.
- Other exclusives include:
  - The ability to interact with LLMs in a distributed manner.
  - The ability to interact with a broad ecosystem of tools, including LangChain, Flask, or Docker. This facilitates the deployment and scaling of applications.

Why do we need orchestration frameworks?

- They allow the use of Foundation LLMs in countless applications and with external data. They avoid the alternative of re-training them.

- They eliminate the limits of the context window with the RAG system.

- They provide countless connectors for databases, cloud storage, and numerous external APIs.

- They provide many pre-designed tools for frequent tasks like data extraction, transformation, and loading.

Criteria for choosing the right orchestration framework

- Ease of use.
- Flexibility.
- Scalability.
- Reliability.
- Existence of a support community.

Alternative orchestration frameworks

- Prefect.
- Airflow.
- Luigi.
- Dagster.