

# LLM Apps

## Advanced Architecture

# Remember: Architecture of a basic LLM Application

- A basic LLM application contains 4 main elements:
  - Foundation LLM: the foundational model upon which we build (e.g., chatGPT).
  - Vector database: where we store our private data.
  - Orchestration framework: the "language" with which we coordinate all parts of the LLM Application.
  - UI framework: the user interface (the "face") of the LLM Application.
- We will examine all these elements in detail in this program.
- When we want our basic LLM application to become a professional application, it is necessary to use the advanced architecture that we will see next.

# Architecture of an advanced LLM App

- A basic LLM application contains 10 main elements:
  - Foundation LLM: the foundational model upon which we build (e.g., chatGPT).
  - Vector database: where we store our private data.
  - Orchestration framework: the "language" with which we coordinate all parts of the LLM Application.
  - UI framework: the user interface (the "face") of the LLM Application.
  - Backend framework.
  - Integrated external APIs.
  - Validation framework: quality control of the content.
  - LLMOps: technical operations to move the application to production.
  - LLM cache: saves previous answers so they don't have to be searched for again.
  - Cloud provider: stores the application.
- We will examine all these elements in detail in this program.