**Crew**

There are several terms

CrewAI Enterprise – A multi agent platform for deploying, running and monitoring Agnetic AI

CrewAI Studio – A no-code/lo-code product for creating a multi agent solutions.

CrewAI open-source framework – what we will focus on as “Orchestrate high performing AI agents with ease and scale”

The CrewAI open-source framework comes with 2 flavors:  
CrewAI Crews - Autonomous solutions with AI teams of agents with different roles

CrewAI Flows – structures automation by dividing complex tasks into precise workflows

**Core concepts**

Agent – an autonomous unit with an LLM, a role, a goal, a backstory, memory, tools

Task – a specific assignment to be carried out, with a description, expected output, agent.

Crew – a team of Agents and Tasks. Either sequential or hierarchical.  
Sequential: run tasks in order they are defined.  
Hierarchical: use a Manager LLM to assign

“Lightweight but somehow more opinionated than OpenAI Agents SDK – more terminology, marginally more prescriptive.. and with ability to get **much** more prescriptive”

These goal, role and backstory and good best practice as we need to frame our problem in a more ordered way, but there might be cases where it’s not adequate.

Agents and Tasks can be created in code but also in yaml files. Allows to separate all the prompt config from our code to a different file.

Then there is the crew.py with proper decorates over it. As we will see for the crew class, agent, task and crew function.

LLMs – CrewAI uses the super simple LietLLM under the hood to interface with almost any LLM, set keys in .env file. Very lightweight, very flexible. Even simpler than OpenAI SDK.

CrewAI project are UV projects.

CrewAI is already installed: uv tool install crewai

Create a new project with: crewai create crew my\_crew

Sidenote: you can also create a flow by “crewai create flow <flow\_name>” which we don’t discuss.

This creation create a directory structure with some config files and python source

To run it, we simply run “crewai run”

Day2:

We need to create an account on serper.dev and we need to create an API key and copy to .env file (SERPER\_API\_KEY), this will allow   
  
5 steps:

1. Create the project with “crewai create crew my\_project”
2. Fill in the config yaml file with Agents and Tasks
3. Complete the crew.py module to create the Agents, Tasks and Crew
4. Update the main.py module to set any inputs
5. Run with “crewai run”