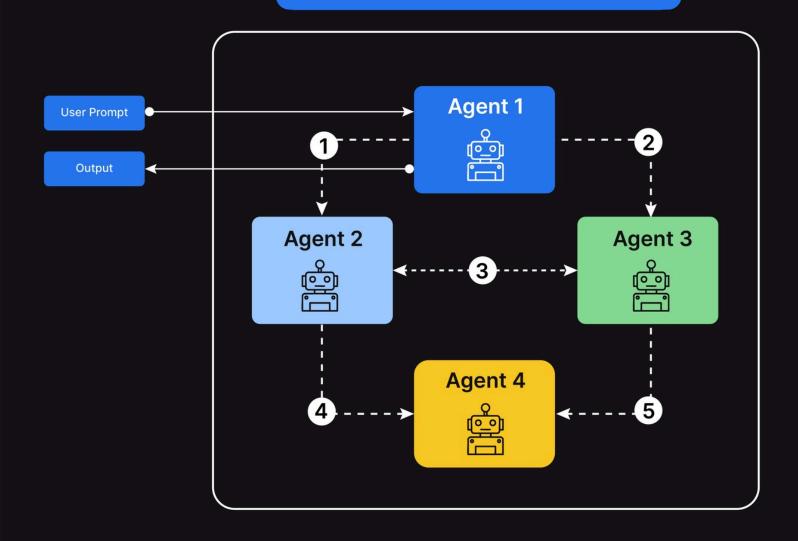


Introduction to Multi-Agent Systems

Miguel Otero Pedrido
Senior ML / Al Engineer at Dressipi
Founder @ The Neural Maze



Multi-Agent Pattern

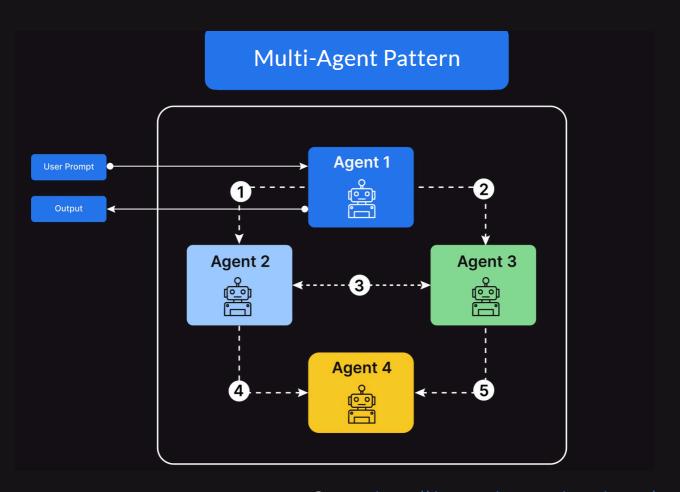




What is the Multi-Agent Pattern?

Definition:

The Multi-Agent Pattern is a framework where tasks are broken down into smaller subtasks, each handled by specialized agents working collaboratively to achieve a common goal.



Source: https://theneuralmaze.substack.com/



What is the Multi-Agent Pattern?

Examples of Frameworks:

CrewAl:

Enables the creation of multi-agent applications.

AutoGen:

Implements variations of the Multi-Agent Pattern for task automation.

LangGraph:

Facilitates dynamic communication and collaboration between agents using language-based graphs.









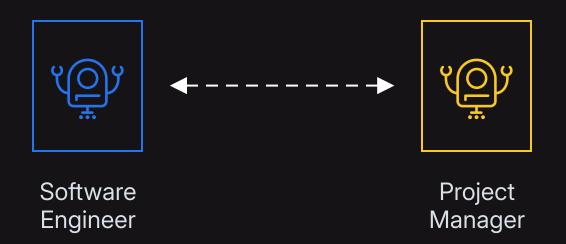
How Does the Multi-Agent Pattern Work?

Task Division:

 Tasks are divided into subtasks and assigned to agents with specific roles

Example:

 One agent can be a software engineer, another a project manager, etc.



Thanks