**Agents in AI**

An Agent is a system that uses an AI Model (typically an LLM) as its core reasoning engine, to:

* **Understand natural language:** Interpret and respond to human instructions in a meaningful way.
* **Reason and plan:** Analyze information, make decisions, and devise strategies to solve problems.
* **Interact with its environment:** Gather information, take actions, and observe the results of those actions.

Agents basically koi task/action perform karte hai . Kaise karte hai by using LLMs as their brain and using Tools ( outer actors ) to perform certain task.

**The Core Components**

Agents’ work is a continuous cycle of: **thinking (Thought) → acting (Act) and observing (Observe)**.

Let’s break down these actions together:

1. **Thought**: The LLM part of the Agent decides what the next step should be.
2. **Action:** The agent takes an action by calling the tools with the associated arguments.
3. **Observation:** The model reflects on the response from the tool.

Lets take one example

* Man lo ek Alfred naam ka agent hai tumhare pass
* Tum use ppochte ho ki “What is the weather in LKO”
* Ab LLM ke pass to current weather data hoga ni use koi api hi call karni hogi
* To wo dekhega jo bhi uske paas tool mein api wala function hoga wo call kardega
* Ab function was called data agya hai to wo data user ko response mein kardega