

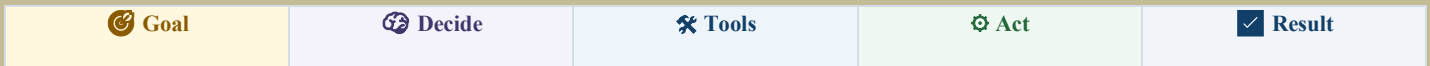
WHAT IS AN AI AGENT?

A Beginner's Quick Guide

Simple definition

An AI Agent is a software system that uses AI to understand a goal, make decisions, use available tools, and take actions to accomplish that goal.

The basic Agent flow



Four basic parts

 Brain Usually an AI model/LLM that understands the request and helps decide what to do.	 Goal Something the agent needs to accomplish, such as finding weather or calculating a price.
 Tools External capabilities such as a calculator, search, weather service, or Python function.	 Action The step the agent performs to move toward the desired result.

Chatbot vs AI Agent

Chatbot	AI Agent
Mainly responds to users	Can work toward a goal
Usually generates an answer	Can decide what steps are needed
May only use conversation	Can use external tools
Usually waits for the next message	Can perform multiple steps

Basic Agent Loop

Understand → Decide → Act → Observe → Decide Again → Complete Goal. The agent may repeat the cycle when the goal has not yet been achieved.

Simple example

User: "Will I need an umbrella today?" → The agent understands the request, uses a weather tool/API, examines the result, and provides a useful response. The important point: it uses information and a sequence of steps to work toward the user's goal.

EngineersTutor AI Agent Project Series

1. Simple AI Agent → 2. Agent with Tools → 3. External Information → 4. Multi-Step Agent → 5. Practical AI Agent

Key takeaway

An AI Agent does not have to be highly autonomous. A simple agent can perform just a few predefined actions, while more advanced agents can use many tools and steps. We will learn by building gradually with Python.

[EngineersTutor.com](https://www.engineerstutor.com) • [EngineersTutor on YouTube](https://www.youtube.com/channel/UC8QxwV6v8v8v8v8v8v8v8v8) • [Learn](#) • [Practice](#) • [Build](#)



Plan
Reason
Use Tools
Take Action
Achieve

Pioneers Behind AI Agents



Alan Turing
Foundations of AI

“We can only see a short distance ahead, but we can see plenty there that needs to be done.”



John McCarthy
AI and LISP

“The purpose of artificial intelligence is to make machines do things that would require intelligence if done by people.”



Marvin Minsky
AI Research

“The real question is not whether machines can think, but whether people do.”



Demis Hassabis
DeepMind

“Our goal is to build AI systems that can help solve some of humanity's biggest challenges.”



Sam Altman
OpenAI

“We want AI to be a tool that elevates human potential and helps people create a better future.”



Ideas Today
Smarter Agents Tomorrow

Python
AI Agents
Machine Learning





EngineersTutor.com
Learning • Practice • Projects • A Better Tomorrow



EngineersTutor
Your Learning Partner

Keep Learning...
Build Skills...
Create a Better Future!

