

Module 1: Getting Started with AI Agents

1.1 What is an AI Agent?

An AI agent is a system that can **perceive its environment, reason about it, and act toward goals**. Unlike traditional software, which follows fixed instructions, an agent adapts based on inputs.

- Example: A chatbot that not only answers questions but also books tickets.

1.2 Types of Agents

- **Reactive Agents:** Respond instantly, no memory. (e.g., Siri's quick answers).
- **Deliberative Agents:** Plan actions before responding. (e.g., chess AI).
- **Hybrid Agents:** Combine both, widely used in real-world systems.

1.3 Why AI Agents Matter Today

- Automating repetitive tasks like scheduling and customer service.
 - Supporting creativity in writing, design, and coding.
 - Powering decision-making in logistics, finance, and healthcare.
- AI agents are a cornerstone of the modern AI revolution.

Reflection Task: Think of one everyday task you'd like an AI agent to handle for you.