

OpenAI Agents SDK Overview

What is the OpenAI Agents SDK?

The Agents SDK by OpenAI allows developers to build goal-driven AI agents that can use tools, retain context, and execute complex tasks autonomously. These agents go beyond simple chatbots by acting like assistants or task performers.

Why are we using the Agents SDK?

We use the Agents SDK to build smarter, autonomous assistants capable of using tools, retaining memory, and completing multi-step tasks. It reduces development complexity and enables stateful, interactive AI applications.

Key Benefits of the OpenAI Agents SDK

- Tool Use: Agents can call developer-defined tools (APIs/functions).
- Persistent Memory: Agents remember conversations and tasks.
- Multi-turn Task Execution: Handles complex tasks over multiple steps.
- Secure and Hosted Runtime: OpenAI runs the logic securely.
- Event Streaming & Observability: Monitor agent actions in real-time.
- Simplified Dev Workflow: Easier to build and deploy agents.

Example Use Cases

- Customer Support Bot: Access knowledge base and manage tickets.
- Coding Assistant: Debug and fetch files.
- AI Scheduler: Book meetings using calendar APIs.
- E-commerce Concierge: Shop using past preferences.

Under the Hood

Agents use function calling for tool use, memory APIs for context, and hosted or local execution environments. They follow instructions and can autonomously reason through tasks.