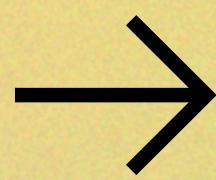


Exploring the Agentic AI Frameworks

With the explosion of Agentic AI frameworks, the choices can be overwhelming. Each framework offers unique strengths for building autonomous agents.

Let's compare the top players:

- LangChain
- LangGraph
- AutoGen
- Agno (Phidata)
- CrewAI
- OpenAI Swarm
- Semantic Kernel
- LlamalIndex
- Pydantic AI
- Swarms
- Smolagents



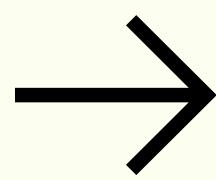
🔍 What Are Agentic AI Frameworks?

Agentic AI frameworks enable AI systems to:

- ✓ Autonomously execute multi-step tasks.
- ✓ Interact with tools, APIs, and external systems.
- ✓ Adapt to dynamic environments and user goals.

Each framework specializes in certain capabilities.

Let's break them down...



Artificial Intelligence

🌟 LangChain

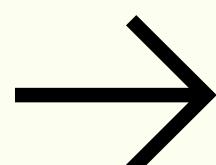
📌 Key Features:

- Modular building blocks for AI agents.
- Supports memory, tool integration, and retrieval augmentation.
- Works well with OpenAI, Hugging Face, and other APIs.

📊 Best For:

- Developers building LLM-powered applications.
- Use cases requiring retrieval-augmented generation (RAG).

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Artificial Intelligence

LangGraph

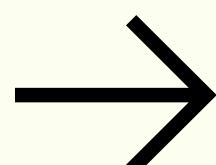
Key Features:

- Graph-based framework for managing structured agent workflows.
- Supports multi-agent collaboration with explicit state handling.
- Ensures deterministic and explainable execution of AI agents.

Best For:

- Developers designing complex, multi-step AI workflows.
- Scenarios requiring fine-grained control over agent interactions.

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Artificial Intelligence

AutoGen

Key Features:

- Framework for creating self-improving multi-agent systems.
- Enables AI agents to autonomously converse, reason, and delegate tasks.
- Includes built-in strategies for reinforcement learning.

Best For:

- Automating multi-agent conversations.
- Applications that require iterative decision-making.

Sourav Verma

