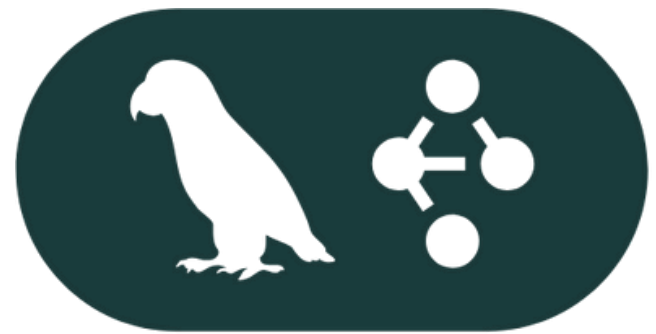


Popular AI Agents

Frameworks

crewai



MetaGPT



LangChain

- Framework for building apps powered by large language models (LLMs), letting you chain together prompts, APIs, memory, and tool calls.
- Widely adopted with strong community support and tooling for real-world workflows.
- Good fit for retrieval-augmented generation, decision workflows, and multi-step logic. Softcery

Key features:

- Modular chains for prompt + action composition.
- Memory and context persistence.
- Tool integrations (APIs, databases, vector stores).
- Support for multi-step agent workflows.

LangGraph

- LangGraph is a framework built on top of LangChain for creating stateful, multi-agent workflows using graphs instead of linear chains.

Key features

- **Graph-based execution model:** Agents and tools are nodes; edges define flow, branching, and loops.
- **State persistence:** Shared, inspectable state passed across agents and steps.
- **Native multi-agent support:** Clean patterns for agent handoffs, collaboration, and arbitration.
- **Failure control & recovery:** Deterministic retries, checkpoints, and resumable execution.

AutoGen(Microsoft)

- Framework focused on building multi-agent conversational and task-oriented systems.
- Designed for structured interaction between multiple specialized AI agents.
- Often used where complex coordination and negotiation between agents matters.

Key features:

- Multi-agent orchestration.
- Conversation and task planning.
- Flexible agent roles.
- Integration with broader Microsoft AI ecosystem.

CrewAI

- Python-first framework for role-based and collaborative multi-agent setups. [turing.com+1](#)
- Treats agents like a “crew” with workers and coordinators. [ibm.com](#)
- Aims for clean APIs and real-world task orchestration. [LinkedIn](#)

Key features:

- Role-based agent design.
- Task distribution and coordination.
- Memory systems across agents.
- Built-in error handling and observability.

Semantic Kernel

- SDK for integrating LLM capabilities deeply into apps, with enterprise focus. turing.com
- Allows connecting language models with existing codebases in .NET, Python, etc. [Medium](#)
- Often paired with AutoGen style orchestration. [Medium](#)

Key features:

- Enterprise-grade security and compliance.
- Plugin/tool orchestration.
- Cross-language SDK support.
- Extensible memory/context schema.

Llamaindex

- Data-centric framework originally for document RAG, now includes agent features. Medium
- Helps agents interact with large data sources efficiently. Analytics Vidhya
- Common choice when data retrieval and reasoning are core to the workflow. Analytics Vidhya

Key features:

- Retrieval-augmented generation (RAG) at its core.
- Connectors for databases and corpus sources.
- Embedding + vector search support.
- Agents that reason using real data.

MetaGPT

- Open-source multi-agent collaboration framework inspired by structured team roles.
- Agents are assigned roles like product manager, engineer, designer, etc.
- Focuses on simulating human organizational behavior in AI workflows.

Key features:

- Role-based agent organization.
- Workflow coordination.
- Task delegation and tracking.
- Extensible agent definitions.

BabyAGI

- Simple, goal-driven autonomous agent that takes a mission and breaks it into tasks.
- Popular in open-source agent experiments.
- Not a full-scale enterprise framework, but great for prototyping end-to-end agent logic.

Key features:

- Task creation + execution loop.
- Goal decomposition.
- Iterative memory queue.
- Easy setup for automation demos.

Haystack

- Haystack is an open-source framework built for production-grade LLM applications, especially search, RAG, and question answering.

Key features

- **Pipeline-based architecture:** Clear, modular pipelines for retrieval, generation, ranking, and evaluation.
- **First-class RAG support:** Native integrations with vector databases, embeddings, and retrievers.
- **LLM-agnostic design:** Works with OpenAI, open-source models, Hugging Face, and custom backends.
- **Production readiness:** Evaluation tools, monitoring hooks, scalability, and deployment support.