

# AI Agent Stack Cheat Sheet 2026

The complete toolkit for building autonomous AI agents

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## AGENT FRAMEWORKS

### LangGraph

Complex multi-agent workflows with cycles & state

Python

### CrewAI

Role-based agents that collaborate on tasks

Python

### AutoGen

Microsoft's multi-agent conversation framework

Python

### OpenAI Agents SDK

Official OpenAI SDK with handoffs & guardrails

Python

### Claude Agent SDK

Anthropic's production agent toolkit

Python/TS

### Google ADK

Agent Dev Kit with Gemini + A2A protocol

Python

### Smolagents

HuggingFace's lightweight code-first agents

Python

## ESSENTIAL TOOLS

### Vector DB

Pinecone, Weaviate, Chroma, Qdrant

Memory

### Orchestration

Temporal, Prefect, Dagster

Workflow

### Monitoring

LangSmith, Arize, Weights & Biases

Observability

### Guardrails

NeMo Guardrails, Guardrails AI

Safety

### Eval

Braintrust, Evalkit, promptfoo

Testing

### Deployment

Modal, Fly.io, Railway

Infra

## LLM PROVIDERS

### OpenAI GPT-5

Best reasoning, most expensive (\$15/1M out)

API

### Claude Opus 4

Best for code & long context (200K)

API

### Gemini 2.5 Pro

1M context, great multimodal

API

### DeepSeek V3

Best price/performance ratio (\$0.27/1M out)

API/Local

### Llama 4 Scout

Open source, 10M context window

Local

### Qwen 3

Strong open alternative from Alibaba

Local

## AGENT PATTERNS

### ReAct

Reason → Act → Observe loop

Pattern

### Plan-and-Execute

Plan steps first, then execute

Pattern

### Reflection

Agent reviews its own output

Pattern

### Multi-Agent

Specialized agents collaborate

Pattern

### Tool-Use

Agent calls external APIs/functions

Pattern

### Human-in-the-Loop

Agent asks for approval on risky actions

Pattern

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