

N8N AUTONOMOUS AGENTS

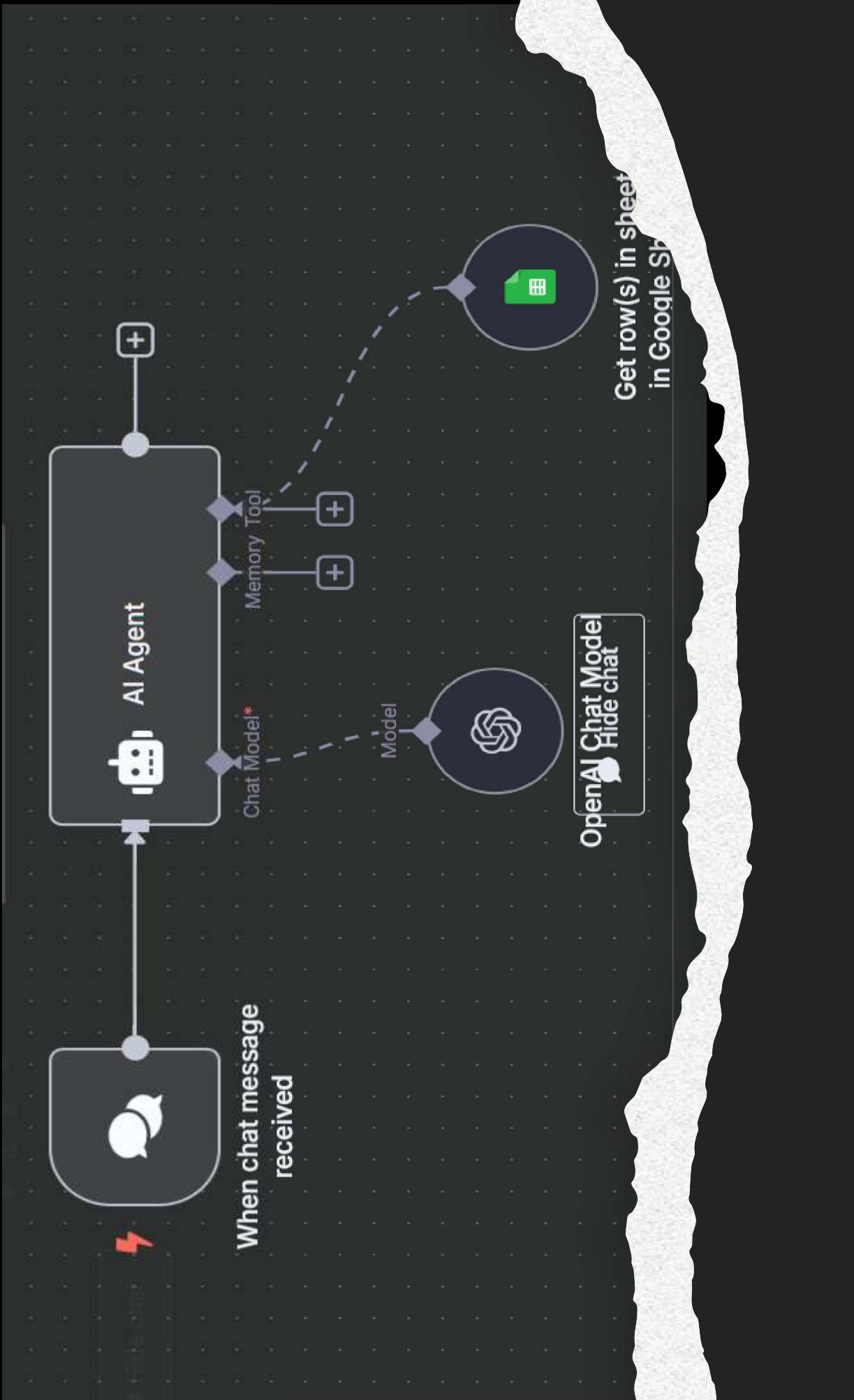


PROJECT:1 - CREATE A CHOT BOT AGENT USING N8N
PROJECT:2 - ACCESS DAILY PLANNER & TRACKER AGENT USING N8N

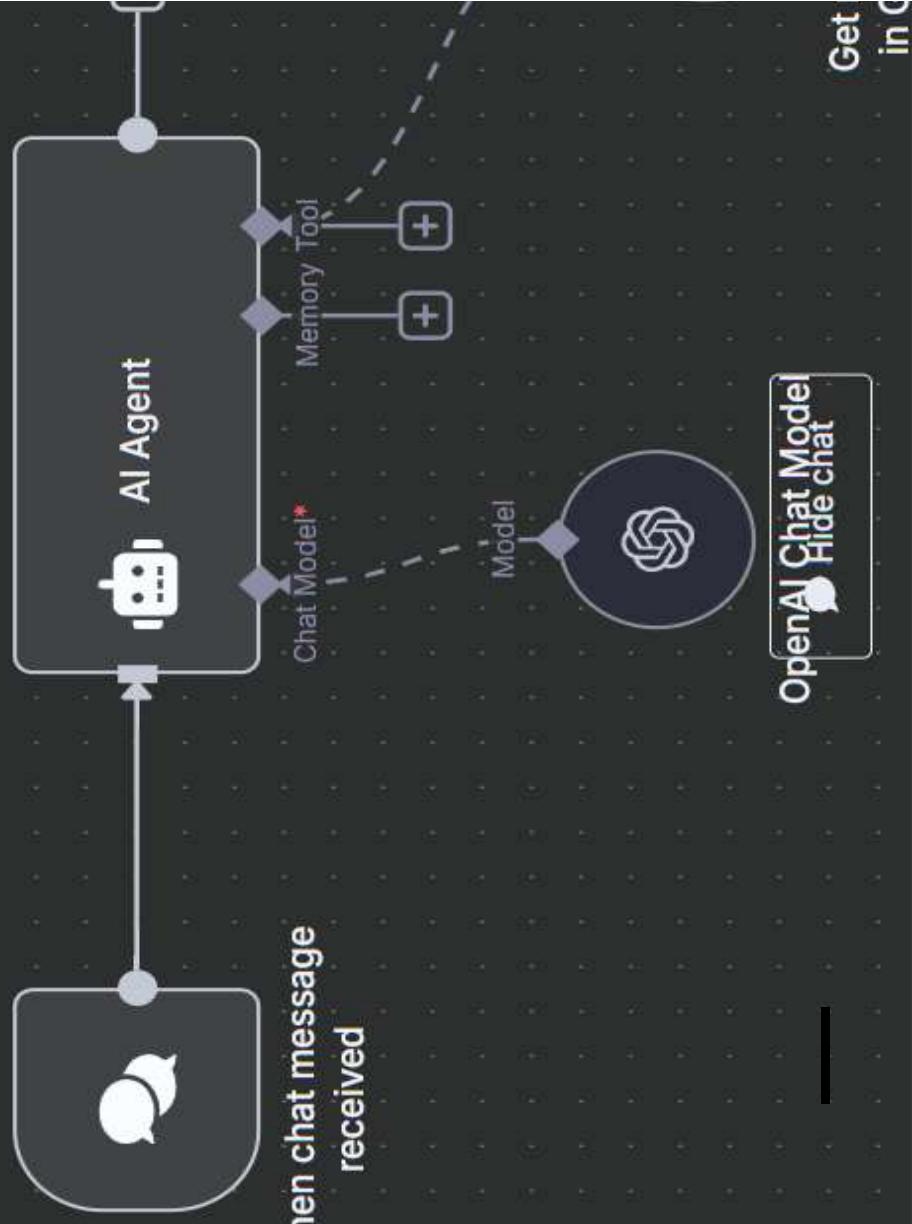
Guided By -->

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AGENTIC AI (N8N AGENTS)



What is n8n?



n8n (Node for Node) is a powerful **workflow automation tool** that allows you to connect different apps and services together—**without writing any code**.

Whether you're a student, freelancer, business owner, or developer, n8n helps automate repetitive tasks, saving you time and effort.

AUDIENCE
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WORKSHOP

Key Features of n8n:

- **Connect 300+ Apps:**
n8n supports integrations with popular apps like Google Sheets, Gmail, Notion, Slack, Telegram, WhatsApp, Airtable, and more.
- **No-Code Visual Builder:**
You can easily create workflows using a drag-and-drop interface. Just connect blocks (nodes) to define how data flows.
- **Custom Code When Needed:**
If you're technical, you can add JavaScript functions for advanced customization.
- **Smart Logic:**
Supports conditions, loops, branches, and error handling to build intelligent automations.
- **Self-Host or Cloud:**
You can use the hosted version at n8n.cloud or install it on your own server using Docker.
- **Free and Open Source:**
n8n is completely open source, giving you freedom, flexibility, and zero licensing fees.

Why Use n8n?

✓ Eliminate manual work

✓ Save hours every week

✓ Improve accuracy and consistency

✓ Build automation skills without coding



✓ Great alternative to Zapier (more powerful, free to host)

What Can You Build With n8n?

Here are a few **real-world automation examples**:

1. Social Media Automation

Auto-post to Twitter when you upload a YouTube video.

2. Email Alert

4. Lead Management

Send order updates, reminders, or welcome messages automatically via WhatsApp or Telegram.

5. Daily Report Generator

When someone fills a Google Form, store their info in Notion and alert the sales team.

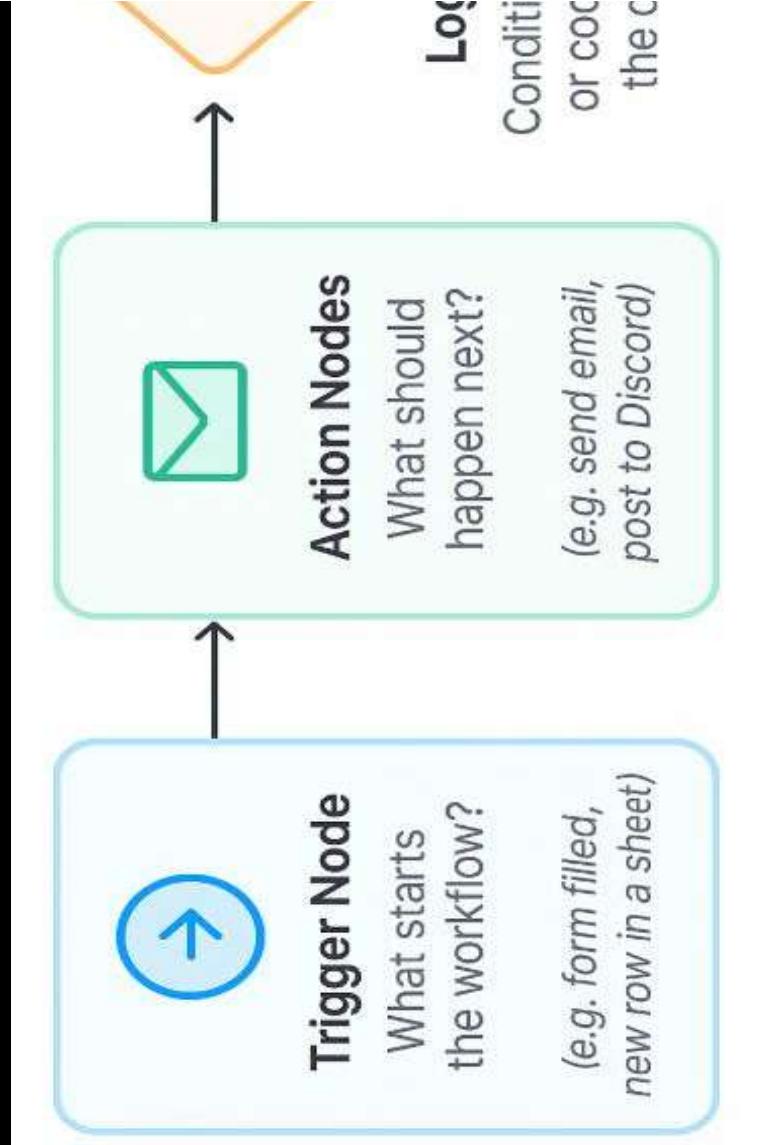
Fetch data from APIs (e.g., weather, sales), format it, and send it to your inbox every morning.

3. WhatsApp/Telegram Bot

Send an email alert when a form is submitted or a Google Sheet is updated.

Components of an n8n Workflow

- **Trigger Node:** What starts the workflow? (e.g., form filled, new row in a sheet)
- **Action Nodes:** What should happen next? (e.g., send email, post to Discord)
- **Logic Nodes:** Conditions, switches, or code to process the data smartly.





Who Should Learn n8n?

Non-tech students who want to automate basic digital tasks

Small business owners who manage social media, leads, or reports

Developers who want a fast way to build integrations

Anyone looking to enter no-code automation careers

Agentic AI Framework Components

Component --> Description

Agent-->

- > Autonomous system that can perceive, decide, and act to achieve a goal.

Environment -->

The context in which the agent operates (web, APIs, user interfaces, etc).

Perception -->

the agent gets information from sensors, user input etc).

Memory --> Stores short-term (contextual) and long-term (factual/task) data.

Planning --> The agent's ability to break goals into tasks or steps (task decomposition).

Decision Engine --> Uses rules, logic, or LLMs to determine next best action.

Tool Use --> external tools search, A databases calculate

Learning --> Adapts from past results (feedback loops, reinforcement, fine-tuning).

Goal Alignment --> Ensures actions are relevant to the user-defined goal or prompt.

Framework	Description	Key Features
LangGraph	Event-driven multi-agent framework built on top of LangChain	Directed cyclic graphs, agent memory, retries, tool use
CrewAI	Multi-agent collaboration with role-based agents	Role, goal, task assignment, memory, hierarchical agents
Autogen (Microsoft)	Conversational agent framework for multi-agent systems	Group chats, human-AI feedback, agent roles, tools
OpenAgents (OpenAI)	Prototype agent system for task delegation using GPTs	Tool usage, search, file browsing, calendar integration
Smol-AI / Smol Developer	Lightweight AI agents that build software	Task breakdown, planning, codegen agents
MetaGPT	Multi-role collaborative agents for software development	PN, Engineer, QA roles; Git-style workflows
AutoGPT	Open-source autonomous agent powered by GPT + memory	Long-term memory, web search, tool use
BabyAGI	Minimal agent with task planning and prioritization	Todo-list manager, feedback loop
SuperAGI	Production-grade agent framework with GUI and marketplace	Web UI, memory, agent templates, docker support
AgentVerse	Simulation platform for multi-agent environments	Environment-based agent interaction
Camel-AI	Agent-to-agent dialog system (e.g., coder . . .)	Roleplay-based task-solving agents

TOP AGENTIC FRAMEWORK 2025

Common Features of Agentic Frameworks

- **Memory:** Short-term (contextual) and long term (vector DB or local)
- **Planning:** Automatic task decomposition
- **Tool Integration:** Plugins, APIs, Browsers, Code Execution
- **Coordination:** Multi-agent collaboration
- **Autonomy Control:** Human-in-the-loop or fully autonomous
- **Environment Interaction:** Files, Web, Terminal, APIs, etc.

Use case of Agents

Code generation and review

Research assistants

Workflow automation

DevOps and scripting

Personal AI assistants

Knowledge retrieval (RAG + planning)

Output

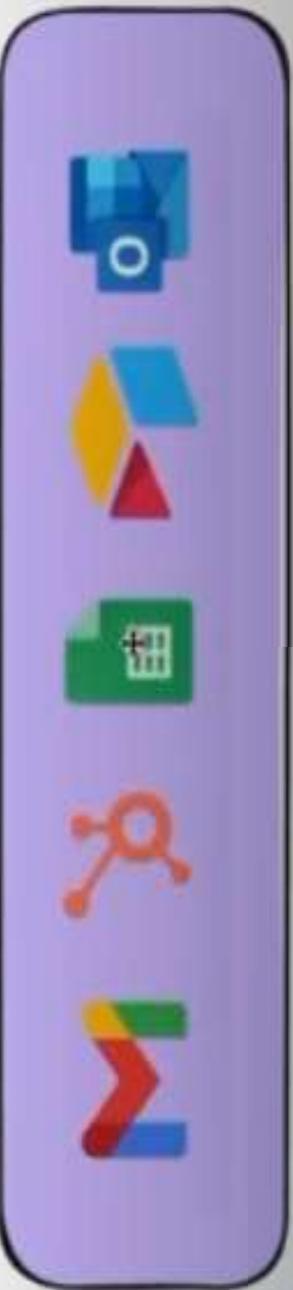
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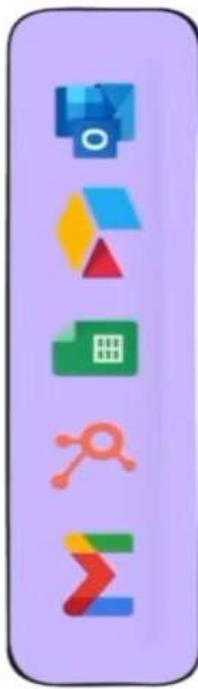
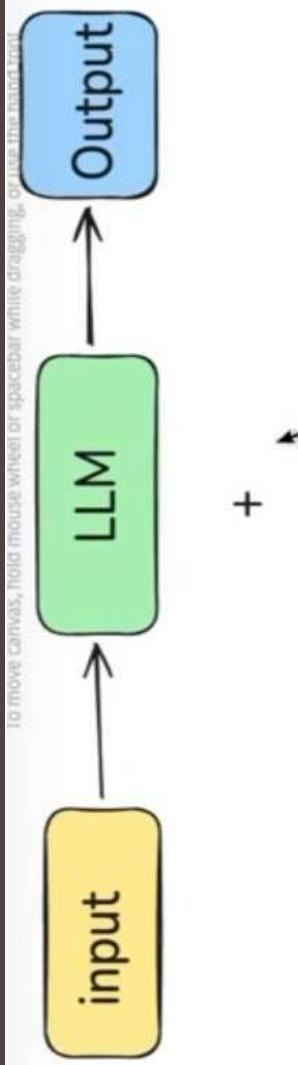
LLM

input



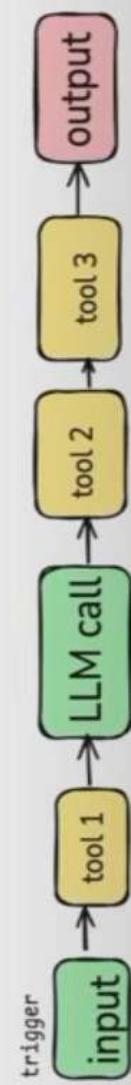
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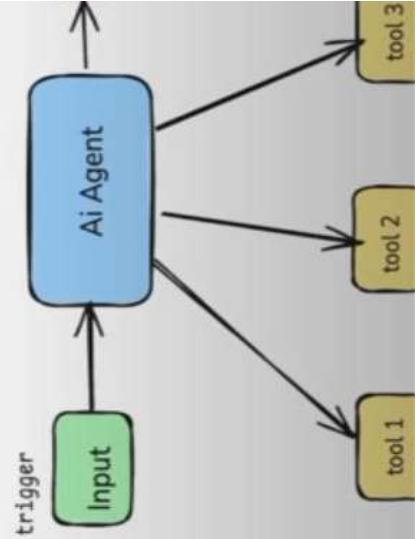


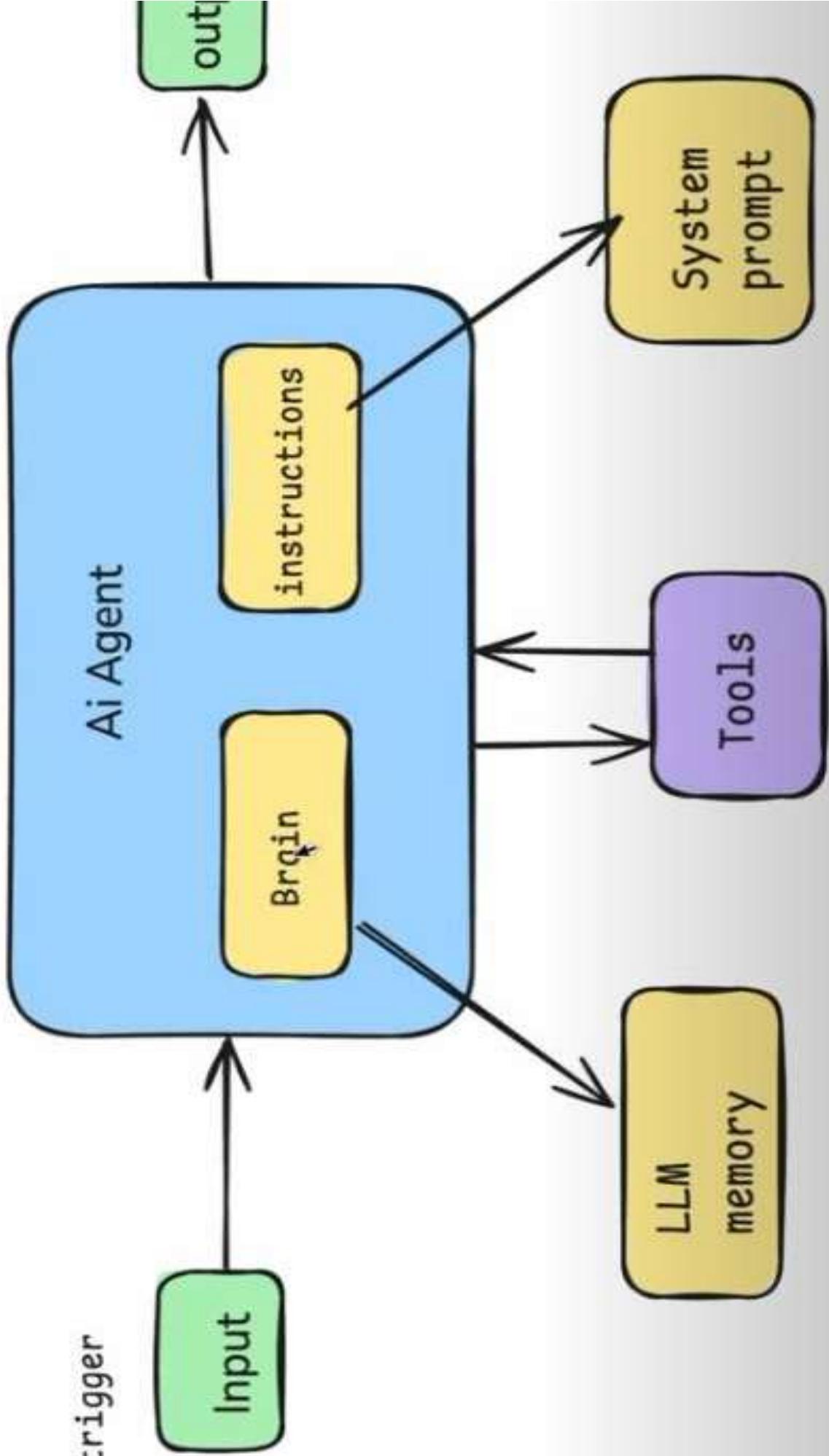
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AI workflow



AI agent





Q & A

