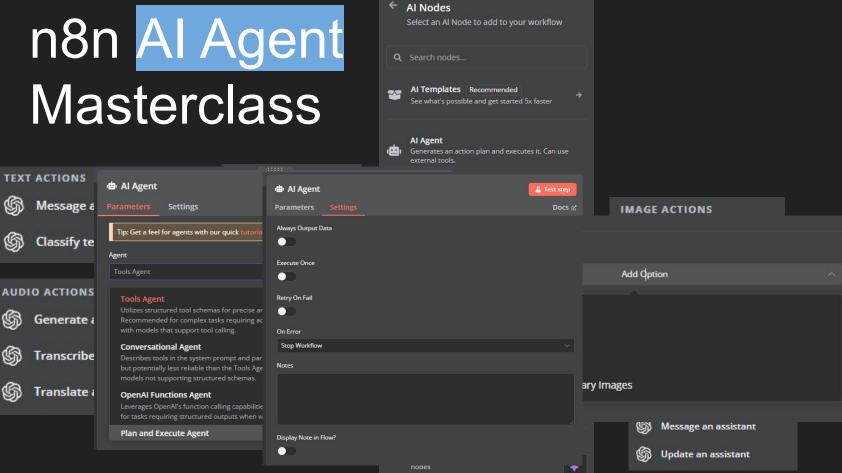
n8n Al Agent Masterclass

Al Nodes Made Simple



What are Al Agents?

An employee who...

Has perfect memory

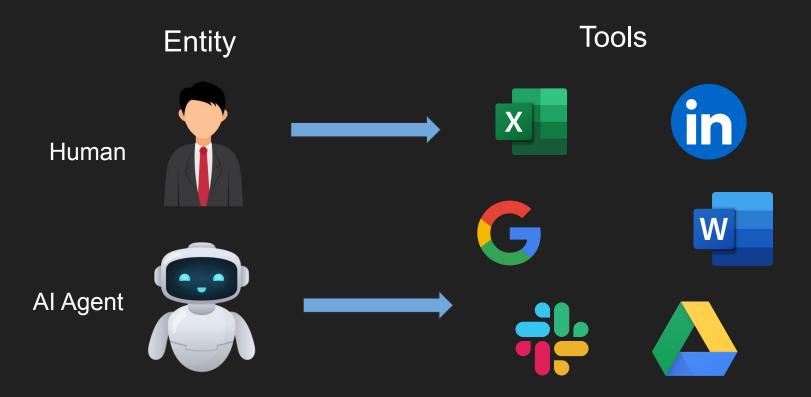
Follows exact instructions

Never sleeps

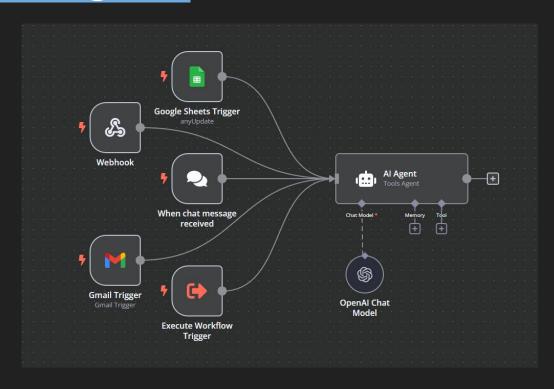
Costs a fraction of hiring a human

Etc.

How Do Al Agents Work?

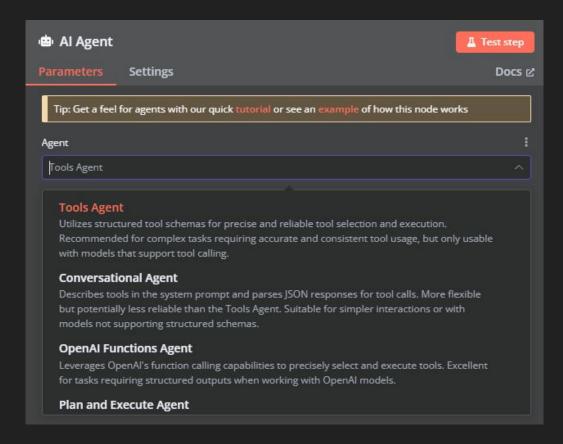


Setting Up an Al Agent Workflow





Types of Al Agents



Al Agent



Generates an action plan and executes it. Can use external tools.

Types of Al Agents

Tools

Conversational

ReAct

SQL

Plan and Execute OpenAl Functions

Tools Agent

What

- Can use external tools to perform specific actions
- E.g., Calculators, HTTP requests, other Al Agents

When

When you need an AI Agent to access other applications or perform actions that go beyond conversation

Example

Receive user's input > look up information from web API > send an email

Conversational Agent

What

- Designed for human-like conversations
- Maintains context over multiple interactions (Chatbot)

When

Engage in a back-and-forth conversation with users

Example

Customer support bot that can answer questions, keep track of context, and respond appropriately with memory

Plan and Execute Agent

What

- Handling complex tasks that need to be broken down into steps
- > Plans out what needs to be done, then takes it step by step

When

- Complex task that requires multiple actions or phases
- Each step to be executed in a structured sequence

Example

An agent that helps with project planning, where it breaks down a task (like organizing an event) into individual steps to execute in order

Other Al Agents

ReAct

Tasks that require reasoning based on logic rather than conversation history

SQL

- Interfaces with SQL databases
- Translates natural language requests into SQL queries

OpenAl Functions

Leverages OpenAl's function calling capabilities, allowing the agent to select tools based on task requirements

JavaScript Variables within Al Agents

Schema

A name Andrew Smith

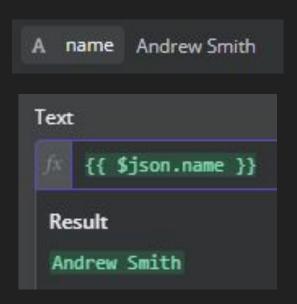
A email andrewsmith@gmail.com

age 32

JSON

```
"name": "Andrew Smith",
"email": "andrewsmith@gmail.com",
"age": 32
}
```

JavaScript Variables within Al Agents



```
A email andrewsmith@gmail.com

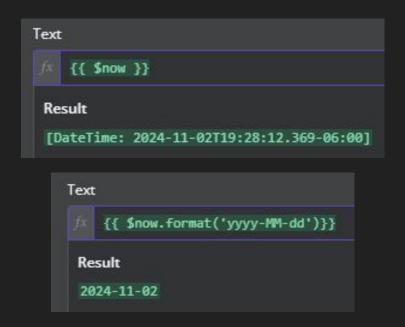
Text

{{ $json.email }}

Result

andrewsmith@gmail.com
```

JavaScript Functions within Al Agents



```
{{ $if() }}
           $if(condition, valueIfTrue, valueIfFalse)
           Returns one of two values depending on the
           condition. Similar to the ? operator in JavaScript.
            // Return "Good day" if time is before 5p
            m, otherwise "Good evening"
            $if($now.hour < 17, "Good day", "Good even
            ing")
           PARAMETERS
           condition (boolean): The check to make. Should
            evaluate to either true or false
           valuelfTrue (any): The value to return if the
```

Output Parsers

Auto-fixing

- Automatically adjusts the output
- Use when you need flexibility but still want reliable formatting

Item List

- Separates the output into individual items
- Use when you're expecting a list and want each item handled separately

Structured Output Parser

- Forces the output to follow a strict JSON structure that you define
- When you need a specific JSON format

OpenAl

LLM Chain

Information Extractor

Q&A Chain

Sentiment Analysis

Summarization Chain

Text Classifier

OpenAl

Connects to OpenAl's models to generate text, analyze images, create audio, etc. based on your instructions

LLM Chain

Provides a simple, streamlined way to send a prompt to a LLM for a response

Information Extractor

Pulls specific pieces of information from a block of text and organizes it into a structured format

Q&A Chain

Uses AI to answer questions based on a knowledge base rather than general internet knowledge

Sentiment Analysis

Analyzes the emotion or tone of a piece of text, categorizing it as positive, negative, or neutral

Summarization Chain

Condenses long pieces of text into shorter summaries, capturing the main points

Text Classifier

Categorizes pieces of text into predefined categories based on its content

Thank You!

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