



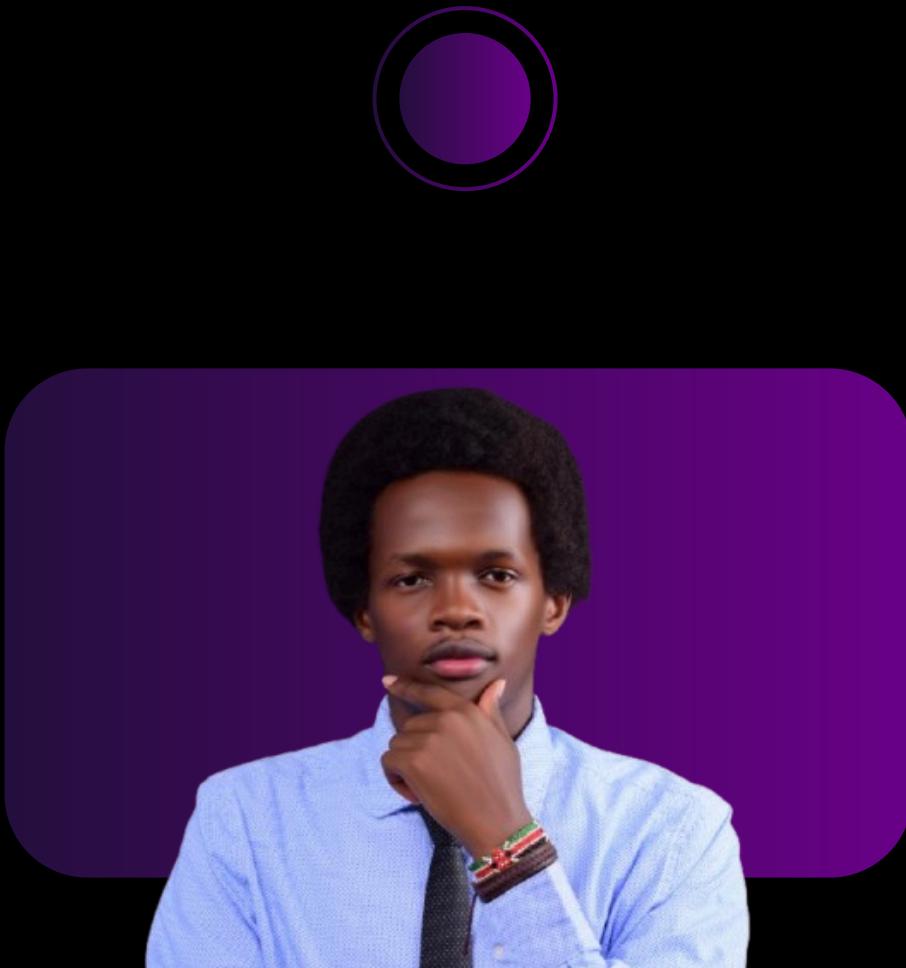
AGENTIC SYSTEM

ARTIFICIAL INTELLIGENCE AGENTS

Presented By: AMOS KIBET

Get Started





Amos Kibet

*Backend & AI
Developer*

About Me

Professionally

- Design and build backend system
- Build and optimize AI models for large-scale use
- Take products from idea to launch

Hobby

- Dancing
- Music
- Relaxing just doing nothing

Projects

www.virgil.africa

VIRGIL

myhela[®]
AFRICA



fti

ZUMU
CREATE • CONNECT • COLLABORATE





WHAT TO EXPECT

01

What Agents system are

02

How are agents useful & what are their use cases

03

How to build Agentic System (both low code and frameworks)



WHAT ARE AI AGENTS?

FOR YOUR ATTENTION

www.virgil.africa





AGENTIC SYSTEM

Agentic systems are environments that are built up of **agents** and **workflow**.

Learn More ➤



Agents vs workflow

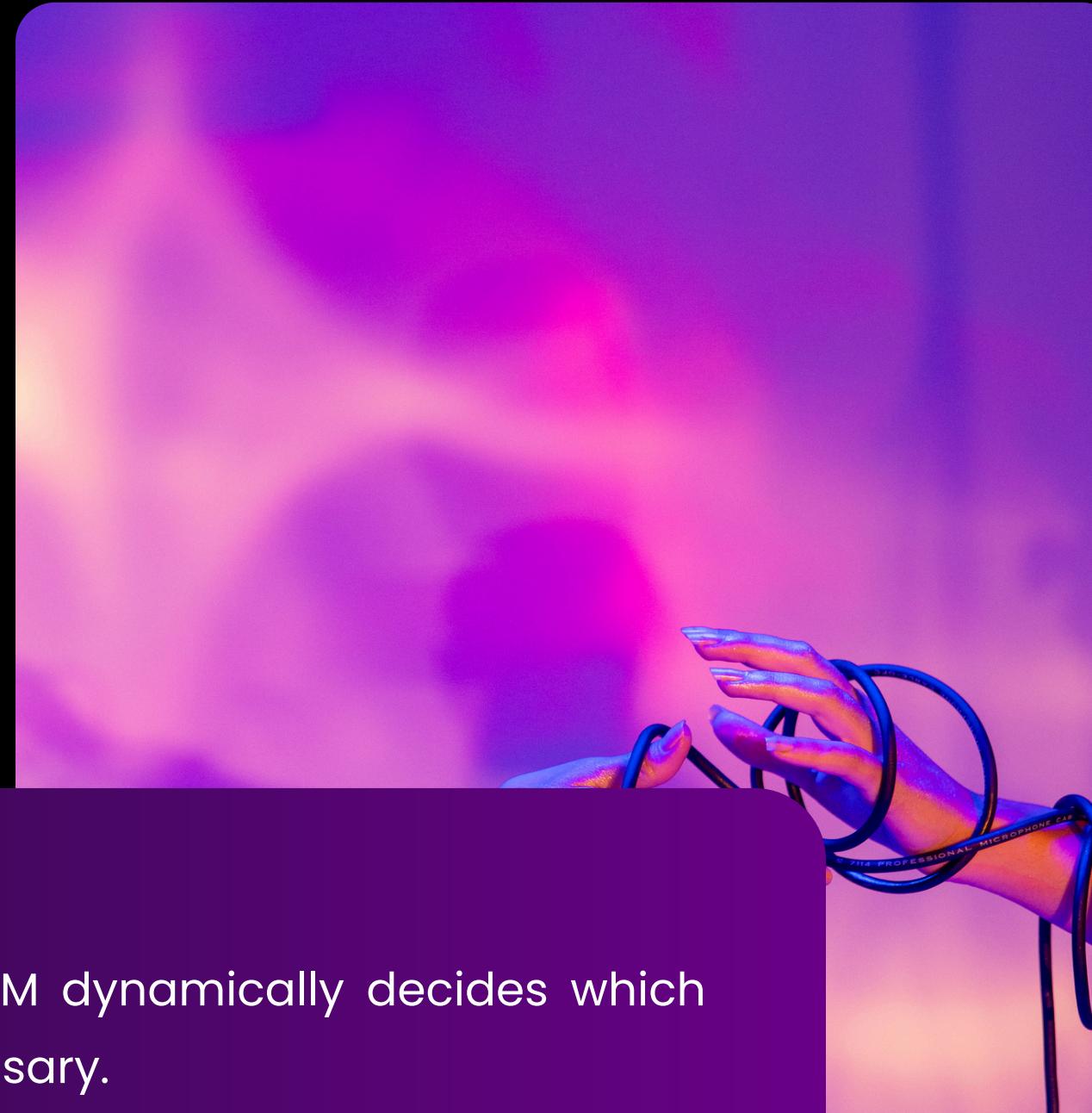
Workflows:

Automation where the output is predefined by the LLM and tools.

Learn More ➔

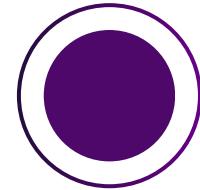
Agents

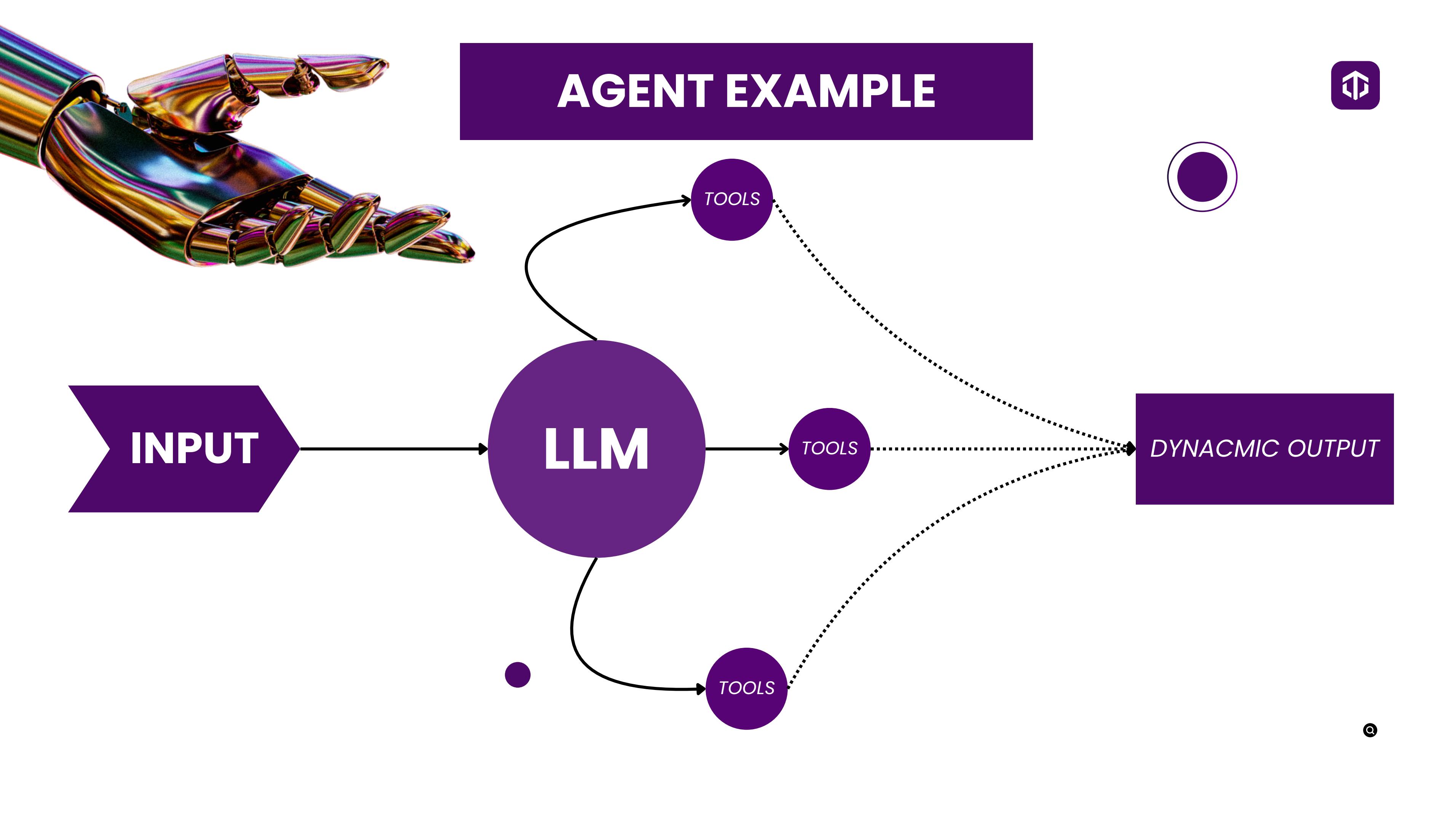
Automations where the LLM dynamically decides which tools and output are necessary.





WORKFLOW EXAMPLE







AI AGENTS VS STANDALONE LLMS

A stand-alone LLM, like Chat GPT, is basically a smart brain that can read, understand and respond to text, images and sometimes audio. It is great at answering questions, generating content or holding conversations, but it cannot take action by itself.

AI agent is like a smart brain with tools, memory, and instruction. It can not only understand what you are saying but also take actions, like **searching the internet, sending an email, booking a flight, or running code.**

In simple terms:

An Standalone-LLM is just a thinker, but AI agents can **think, plan, and Execute.**





CORE COMPONENTS FOR AI AGENTS

01

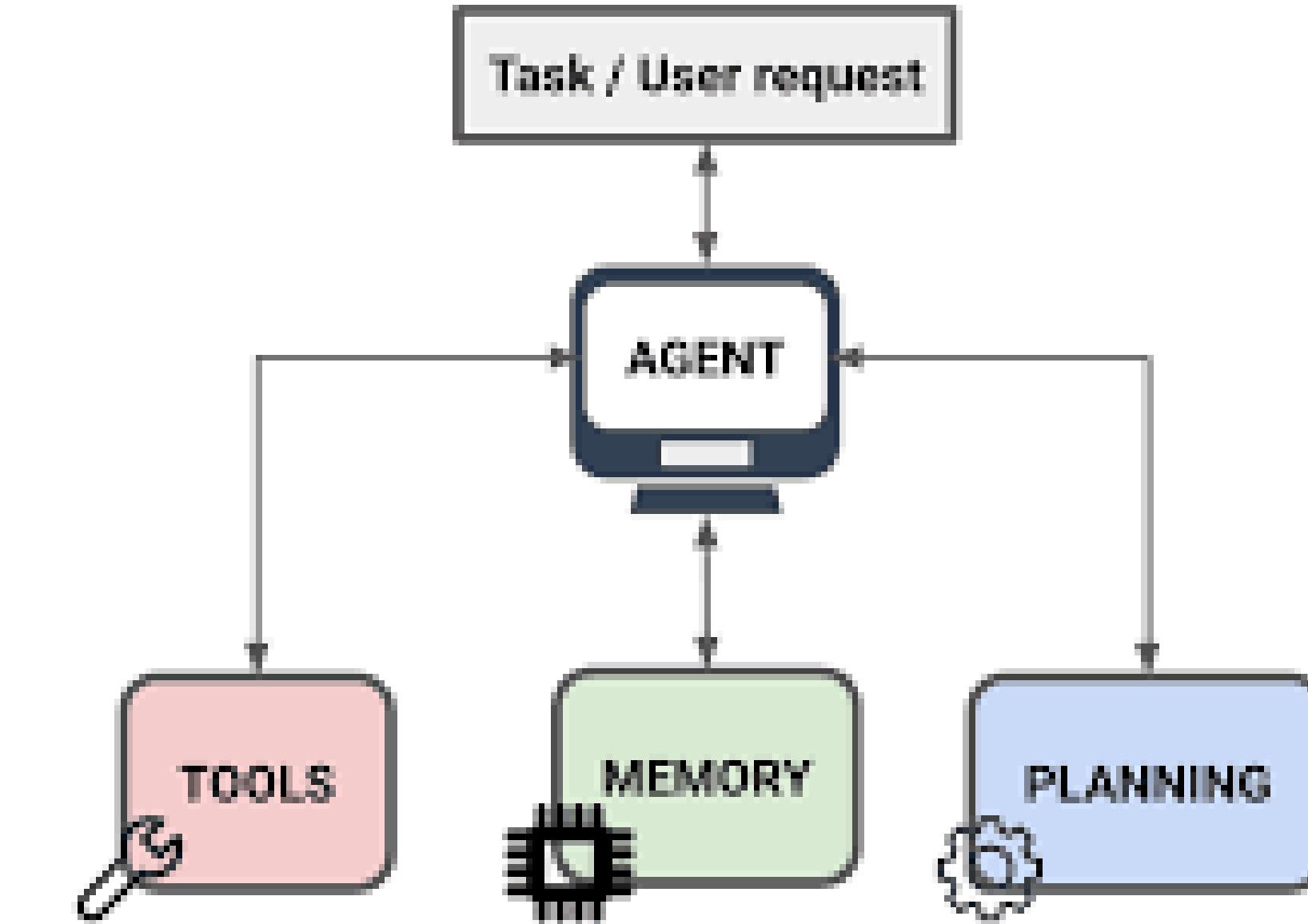
Brain

02

Memory

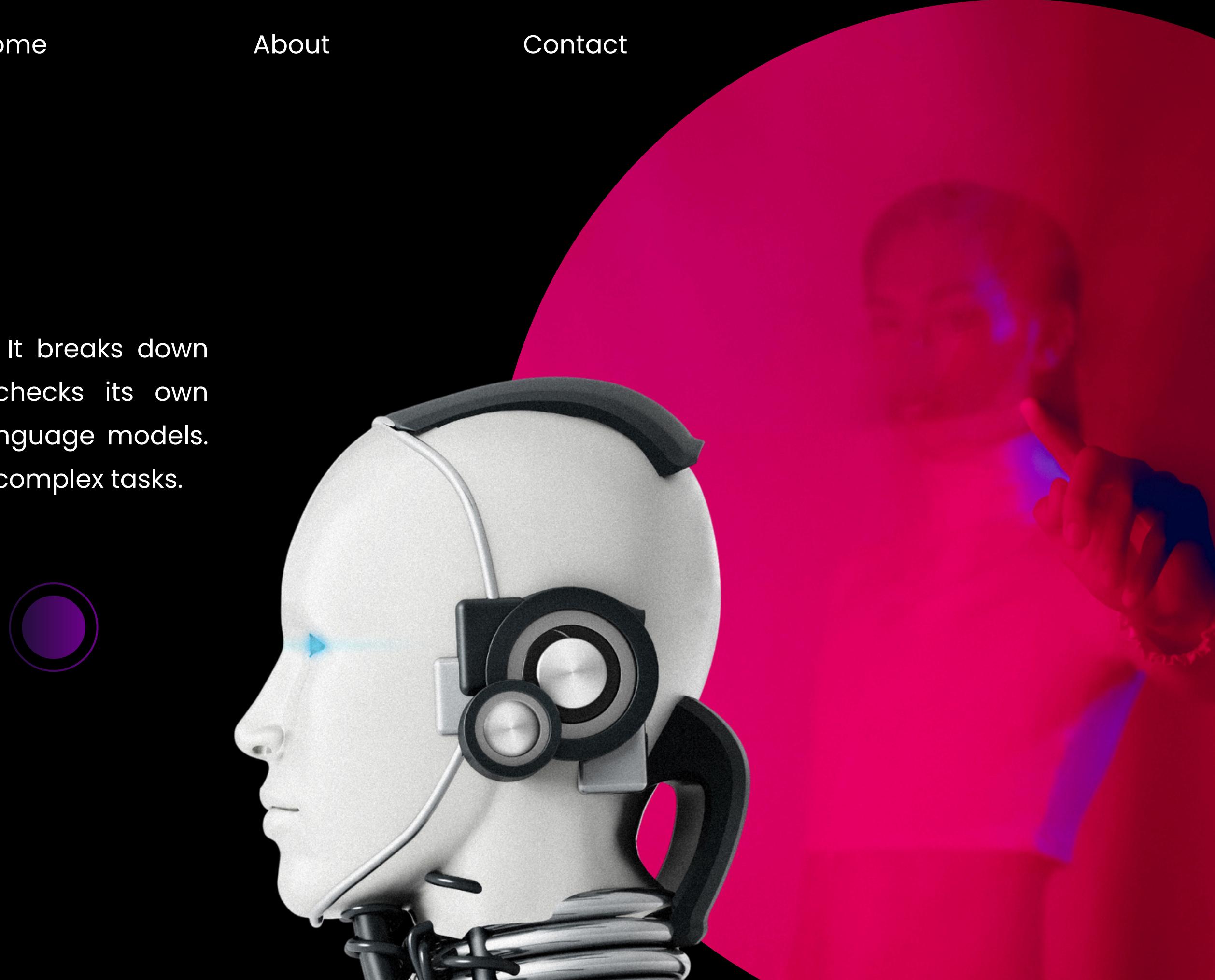
03

Tool



Brain

Brain is what helps the agent think. It breaks down tasks, learns from mistakes, and checks its own progress. This is done using large language models. Without brain, the agent can't handle complex tasks.

[Learn More ➤](#)

Memory

- The memory module enables the AI agent to **retain** and **recall** information,
- Ensure that it can learn from **past interactions** and **maintain context** over time.

This module is typically divided into **short-term** and **long-term memory**.

- **Short-term memory**
- **Long-term memory**,

[Learn More ➤](#)

Tool calling

The action module implements the identical decision in the real world.

It enables interaction with:

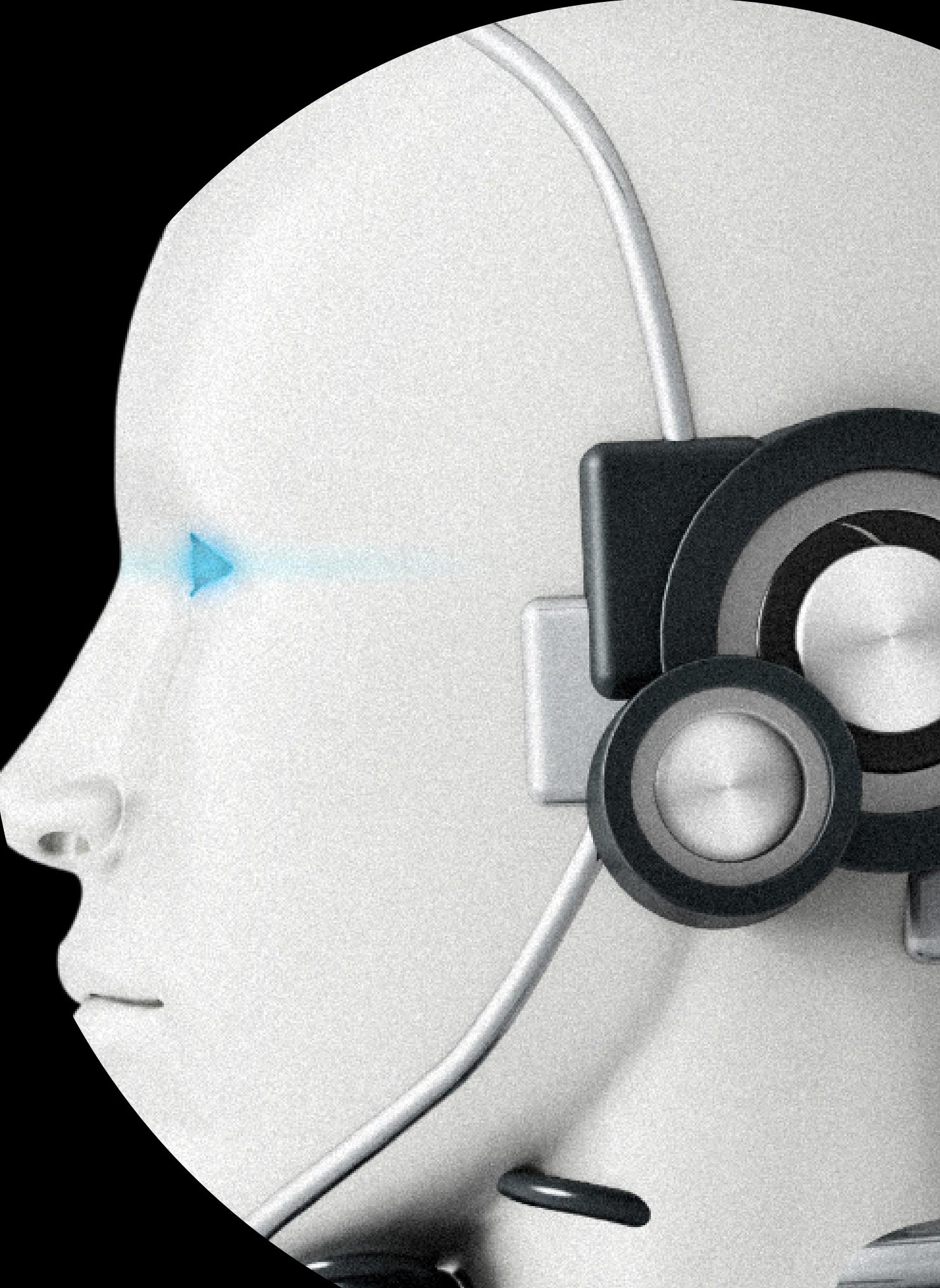
- Digital systems,
- Physical environments.

These steps may include:

- Calling a tool such as an API,
- Interacting with an external environment (e.g., moving a robotic arm).

Learn More ➔

www.virgil.africa





HOW ARE AGENTS USEFUL & WHAT ARE THEIR USE CASES

FOR YOUR ATTENTION

www.virgil.africa



USE CASES AI AGENTS

01

VET ASSISTANT

02

**MED ASSISTANT (BOOKING
MEETINGS AND CONSULTATIONS)**

03

FILE TAX RETURNS

04

**HOME ASSISTANT(TURN
ON AND OFF THE LIGHTS)**

05

**CUSTOMER SUPPORT AI
(ZURI FROM SAFARICOM)**

06





HOW TO BUILD AGENTIC SYSTEM

FOR YOUR ATTENTION

www.virgil.africa



NO-CODE AI

Building AI Solutions
Without a Single Line

NO CODE

APPROACHES WHEN BUILDING AI AGENTS?

No Code: This is the simplest build type. It allows you to create AI agents without writing any code.(N8N, LANGFLOW,MAKE.COM)

Development Frameworks: This build type requires extensive coding and is used to create complex AI agents. (LANGCHAIN, LLAMA INDEX)

FRAME
WORKS

DEVELOPMENT FRAMEWORKS



PREREQUISITE

01

N8N ACCOUNT

02

LAPTOP

03

OPENAI API KEY

05

WHATSAPP API KEYS

06







THANK YOU

FOR YOUR ATTENTION

Presented By: Amos Kibet

Get Started



