

GENERATIVE AI SERIES: DAY 12

The Future is Here: What are AI Agents?

We've learned how to talk to AI. Now lets see what happens when AI starts doing things on **their** own!

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From Calculator to Smart Intern

A Chatbot (like ChatGPT) is like a calculator: you ask a question, it gives a direct answer.

An AI Agent is like a smart intern: you give it a goal, and it figures out the steps, uses the necessary tools, and completes task autonomously.

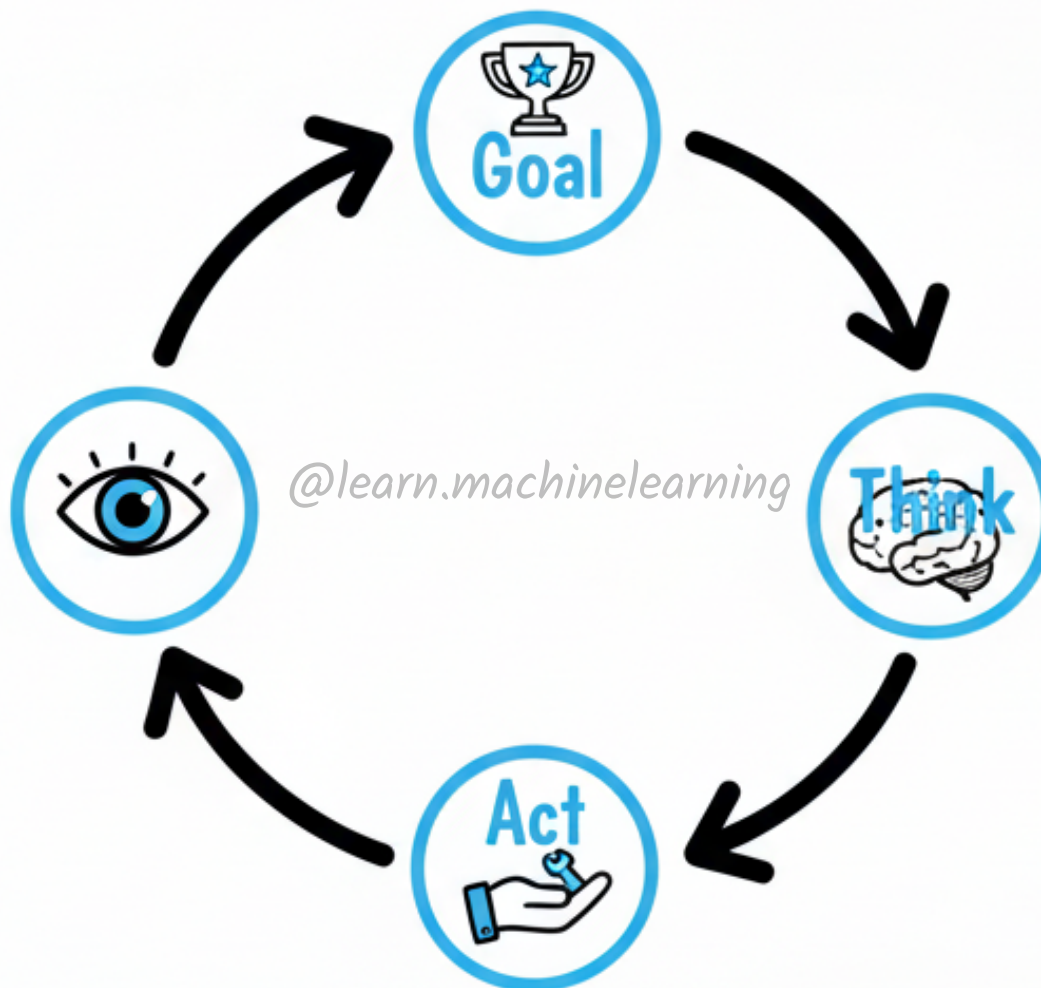
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The Cycle of Action

AI Agents operate in a continuous loop to achieve their goals:

- Goal: Understand the main objective.
- **Think/Plan**: Break the goal into smaller, actionable steps.
- Act: Execute a step (e.p. browse website, write a line of code).
- Observe: Adjust the plan and continue until the goal is met.



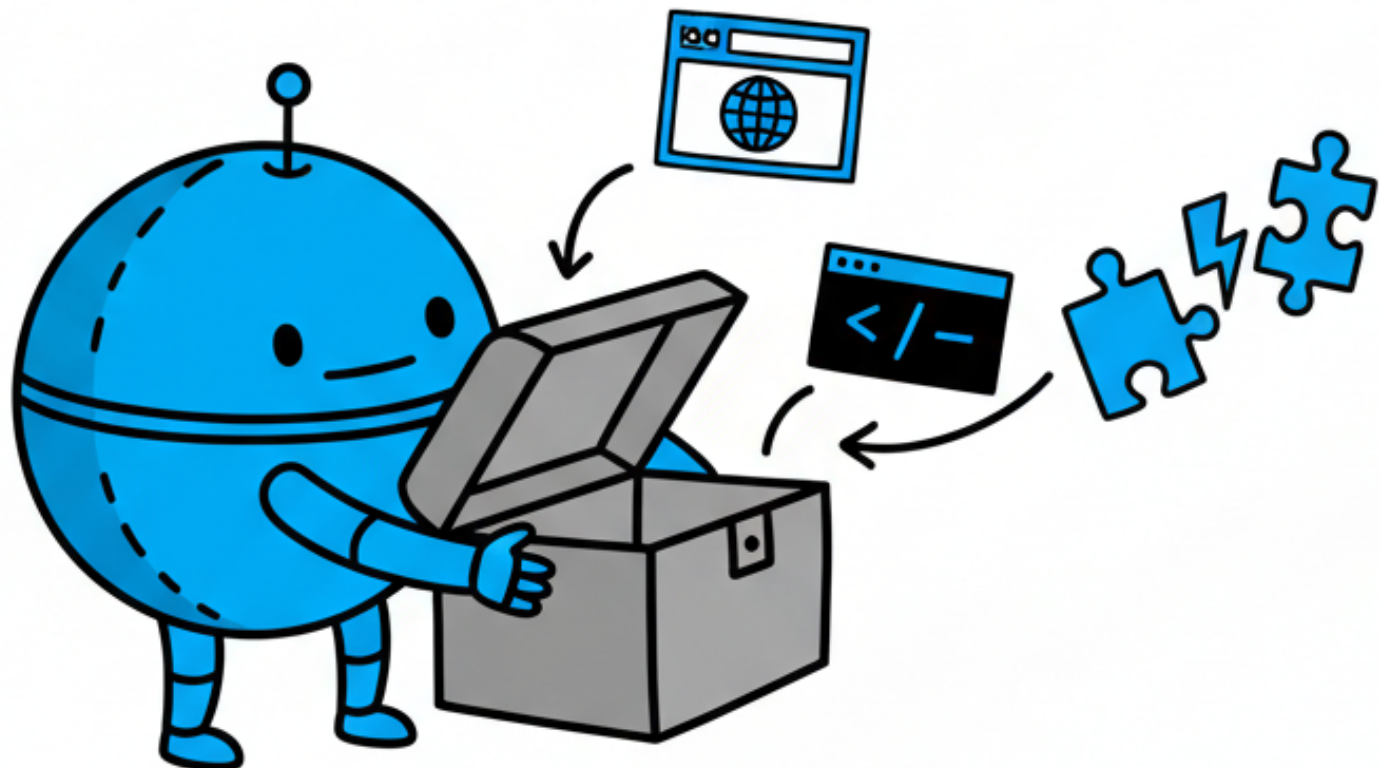
More Than Just Text: **The Agent's Toolbox**

Unlike a simple LLM, an agent can be given access to "tools" to interact with the world. This is their superpower! These tools can include:

Web Browsing: To research real-time information.
Code Execution: To run programs or analyze data.

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API Access: To connect with software (like your calendar or email).



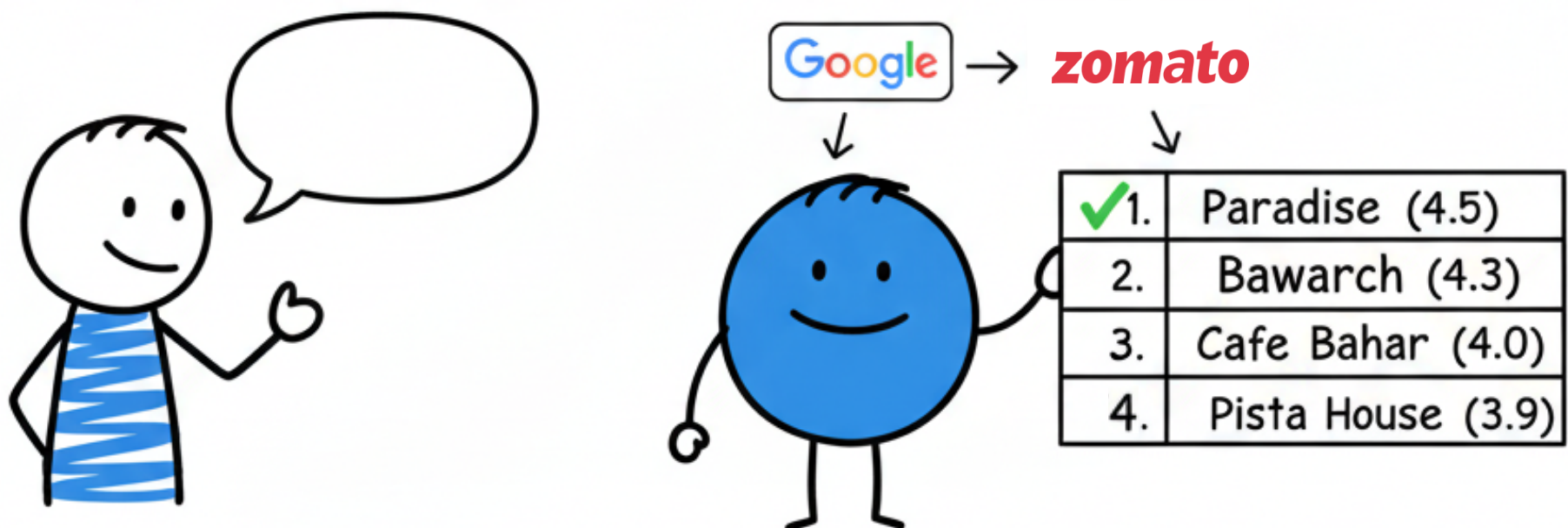
Putting an Agent to Work!

Goal given to Agent:

"Find the top 5 biryani places in Hyderabad with best reviews from the last year, and summarize them in table." *@learn.machinelearning*

The Agent's Steps (simplified):

- Plan: Browse Google, Zomato. Extract names & ratings. Filter by date. Create a table.
- Action: Uses its "browser searches."
- Action: Uses its "browser tool" to perform searches.
- Action: Uses its "data analysis tool" sort and filter.
- Output: A neat table with the results.



The Shift from Instruction to Intention

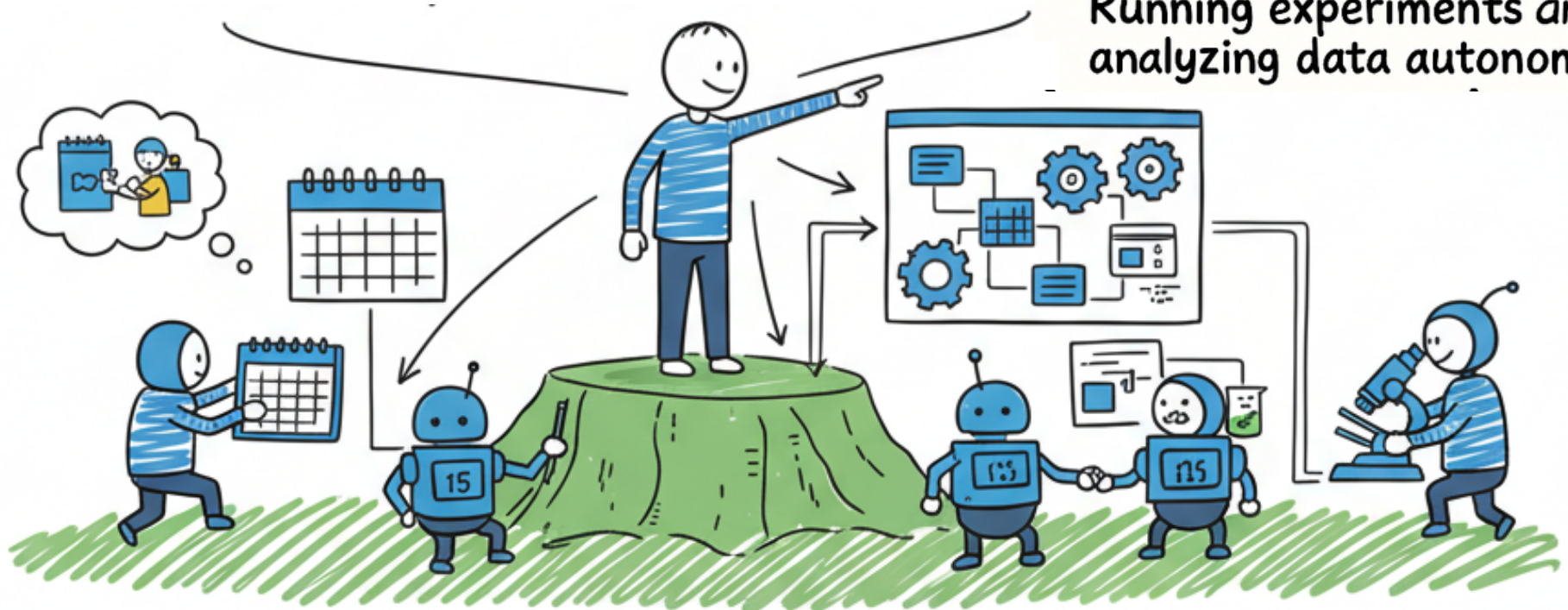
AI Agents are a massive leap forward. They allow us to move from telling an AI **exactly what to do** (prompting) to telling it what we want to achieve (setting a goal).

This will revolutionize:

- **Personal Assistants:** Managing your entire life, not just your calendar.
- **Business Automation:** Handling complex workflows like customer support or supply chain management

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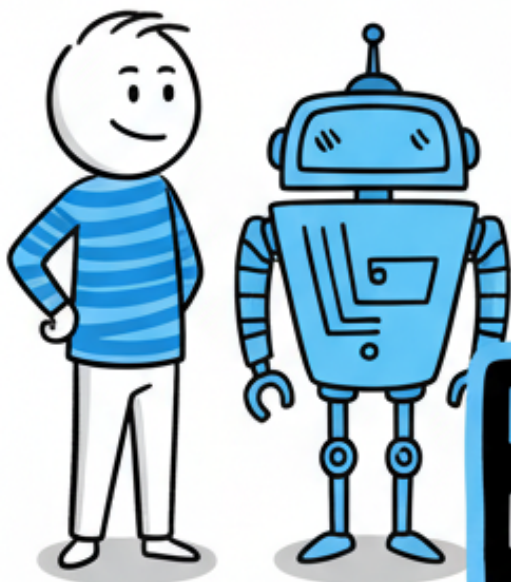
- **Scientific Discovery:** Running experiments and analyzing data autonomously



Day 12 Takeaway: The Dawn of Autonomous AI

AI Agents are **Autonomous** systems that can understand a goal, and plan, and use tools to execute it. They represent the exciting future of AI, moving from simple instruction-followers to complex problem-solvers.

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Next Up

Day 13: AI in Healthcare - The High-Stakes Revolution!

DAY
13

What's the first big goal you would give to your personal AI agent? Dream big! ↓

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SAVE this post to get a glimpse of the future of AI!



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