

# Agentic AI

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# About Me

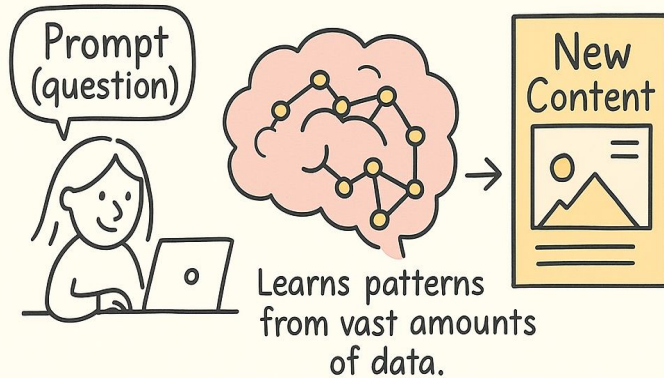
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## A Passionate Technocrat

- AI Research
- Automation
- Author
- Educator
- Mentor
- Adventurer

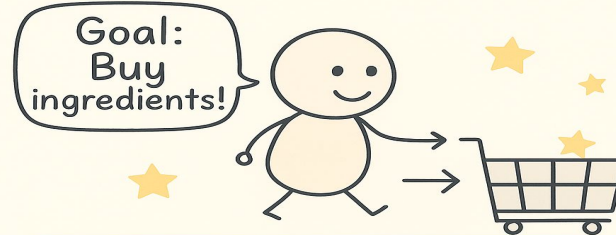
# What is Generative AI?

Learns patterns from vast amounts of data.



# What is an AI Agent?

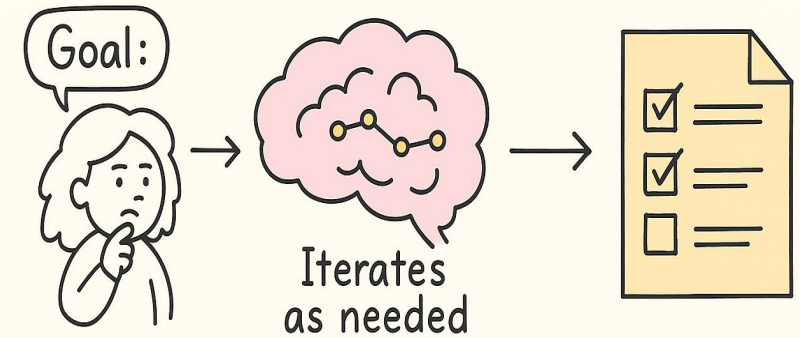
Acts in the real or digital world



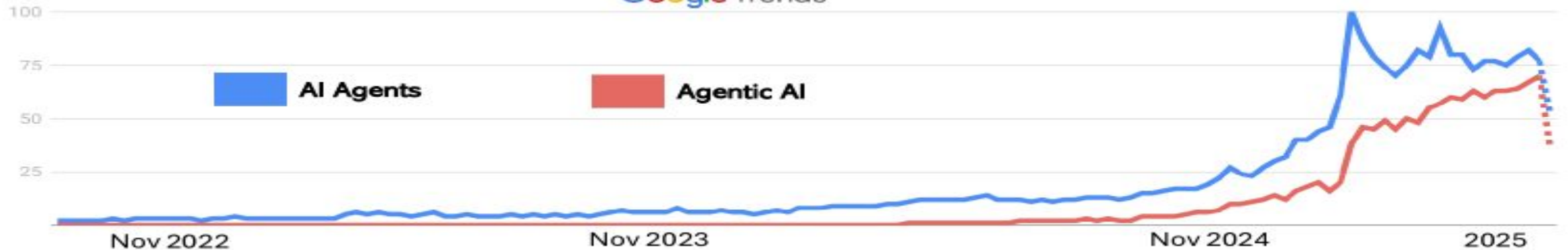
Performs actions to achieve your goals

# What is Agentic AI?

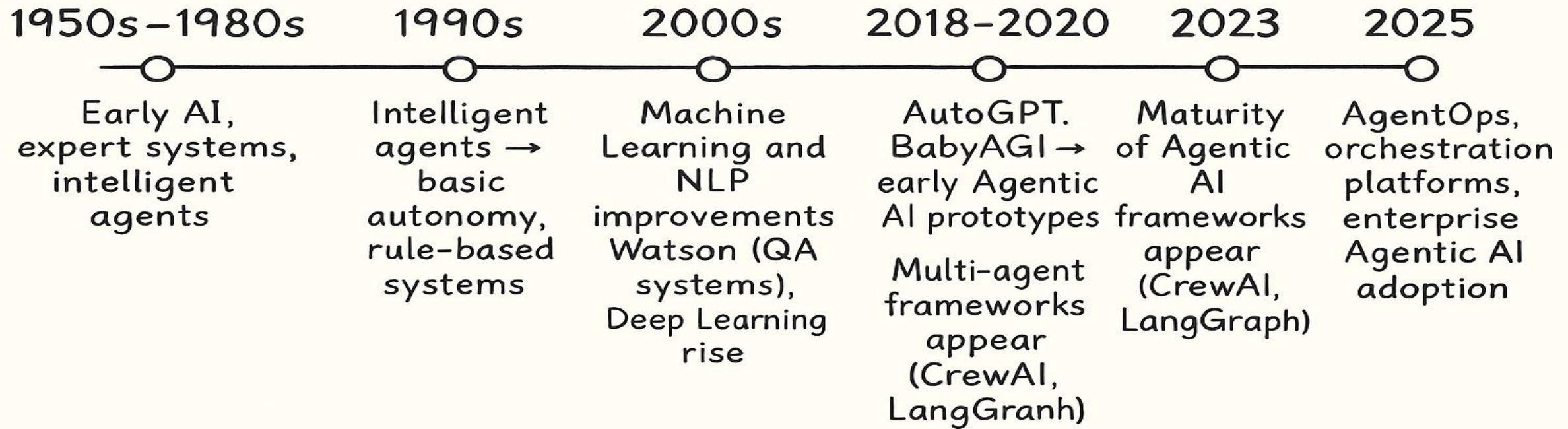
Goals into actionable plans



Source: Google Trends



# History of Agentic AI



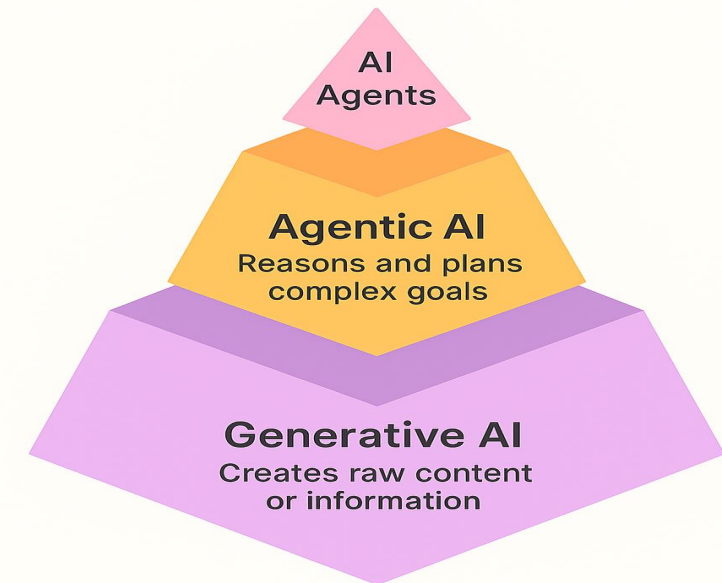
Agentic AI evolved from basic rule-based agents to modern multi-agent autonomous systems built on advanced language models and planning frameworks.



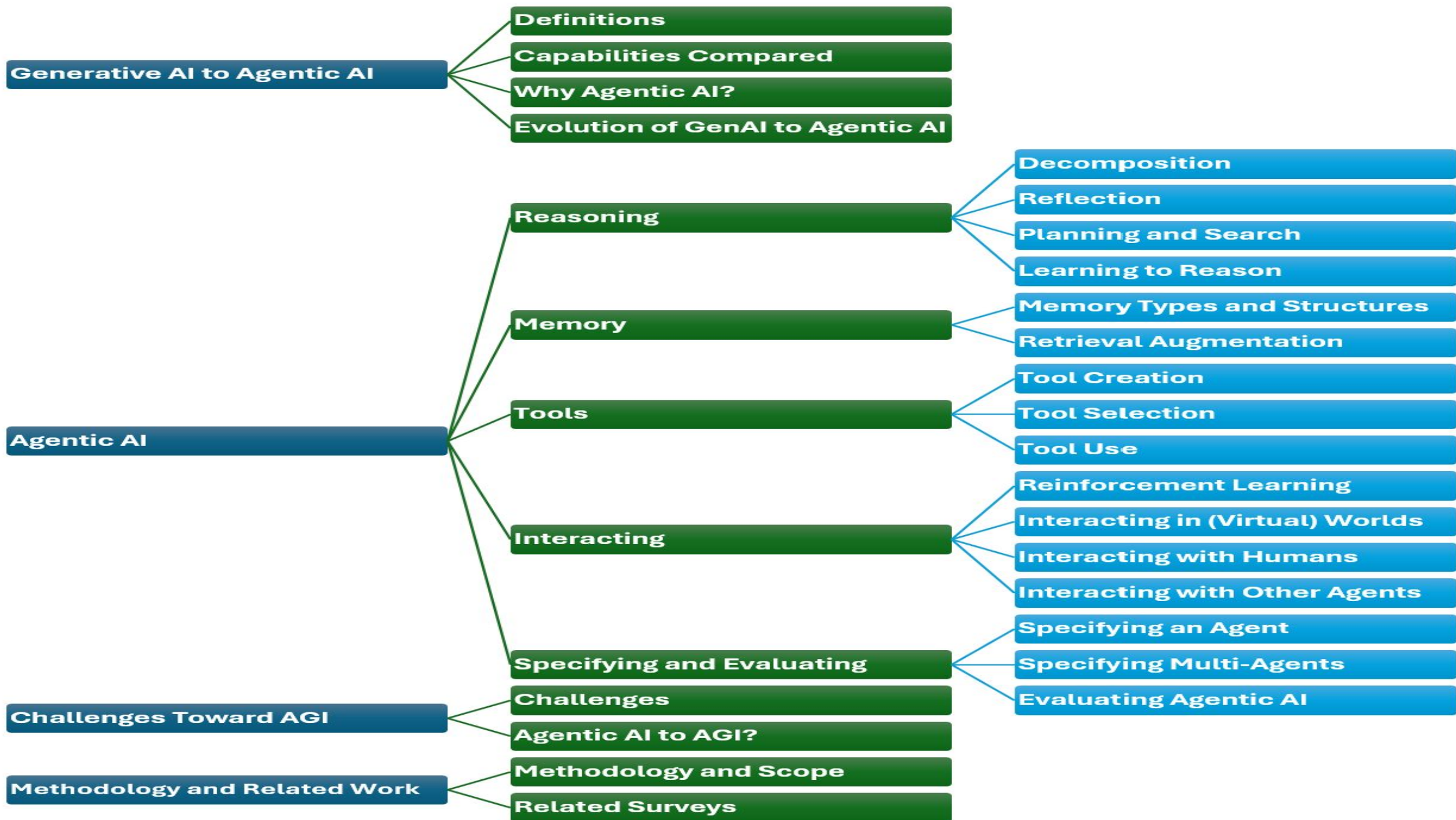
In essence, Agentic AI provides the brain and the plan, while AI Agents provide the hands and feet to interact with the world and carry out that plan.

A sophisticated system often combines all three: Generative AI might produce text or code, Agentic AI orchestrates a complex workflow using that output, and various AI Agents perform the necessary steps by interacting with tools and environments.

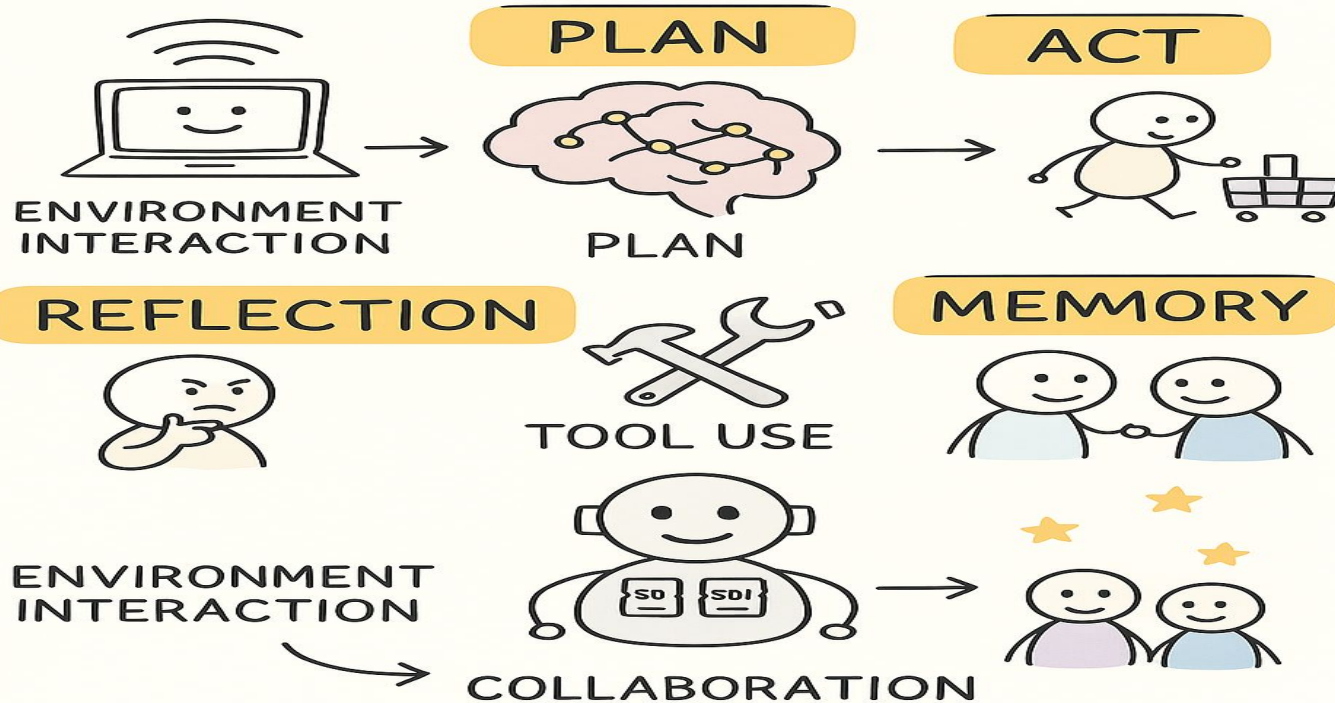
## How They Fit Together



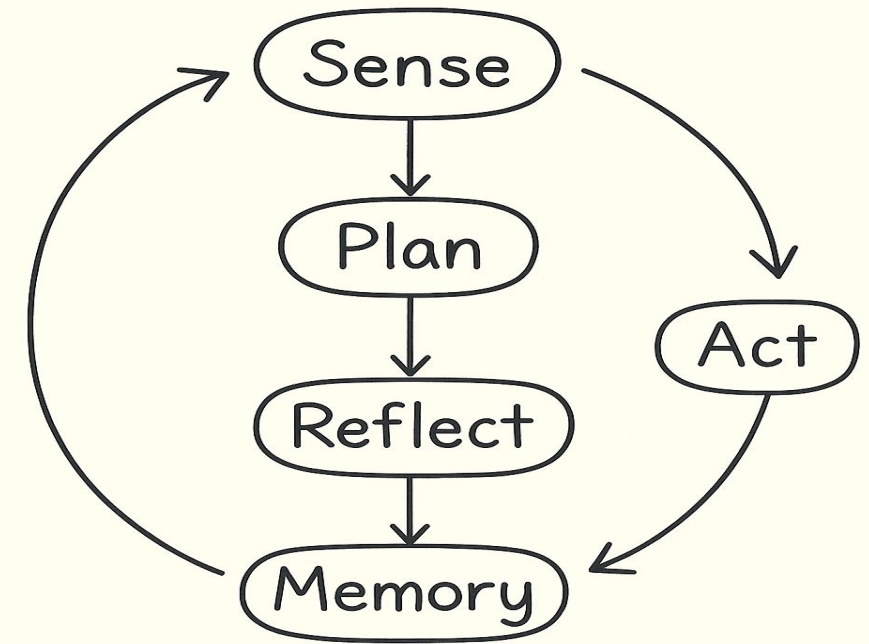
# Relationship



# Core Components of Agentic AI



Agentic AI operates in an iterative loop of sensing, planning, acting, reflecting, and learning—enabling autonomous goal pursuit.





# Prompting Techniques in Agentic AI

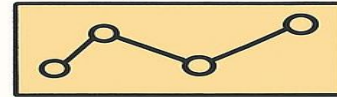
## Chain of Thought (CoT)

Force step-by-step reasoning  
"Let's think step by step.."



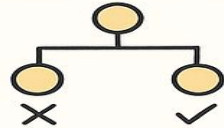
## Graph of Thought (GoT)

Parallel subgoal reasoning  
Plan multiple sub-goals in parallel



## Tree of Thought (ToT)

Hierarchical reasoning and pruning  
Generate plan, prune bad ones



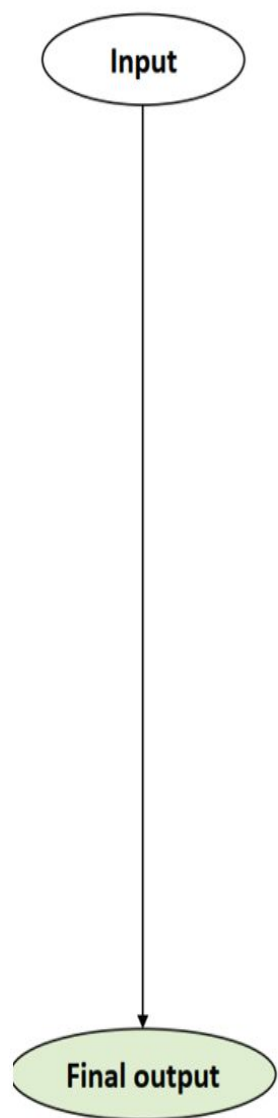
## Program of Thought (PoT)

Agent writes code to reason  
Generate Python functions

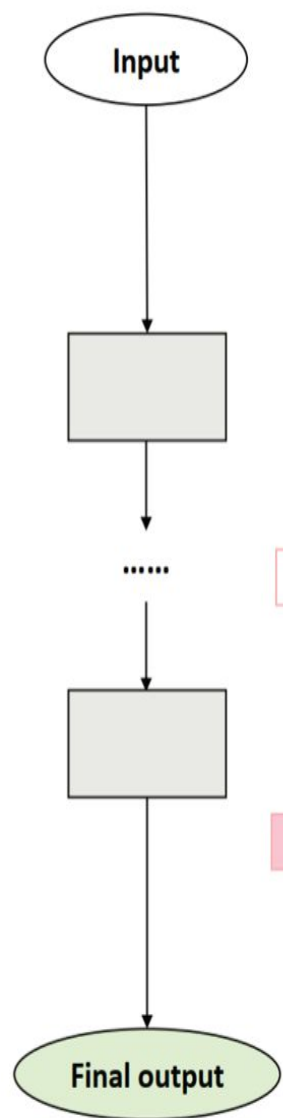
```
def  
print
```

Agentic AI leverages advanced prompting to enhance reasoning, planning, and reflection—far beyond simple one-shot prompts.

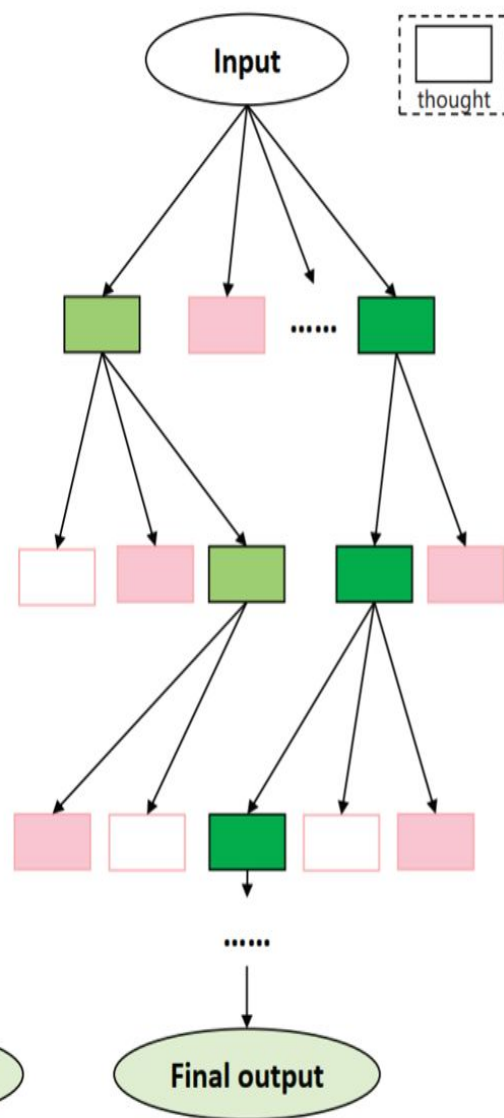




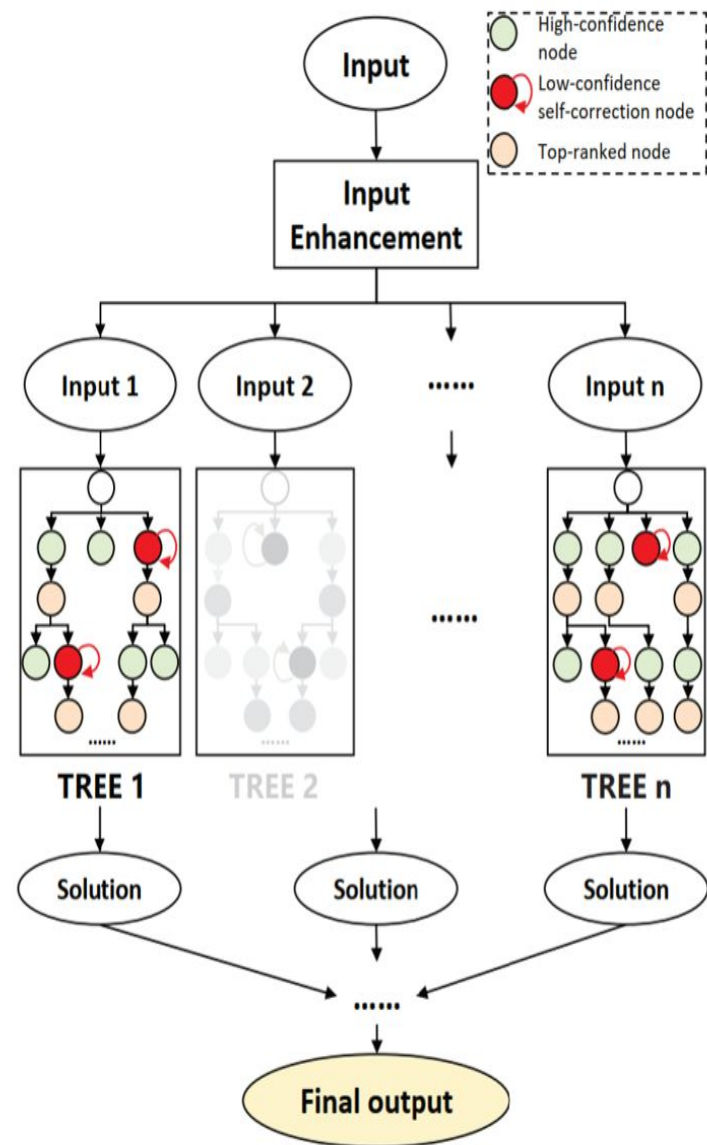
(a) Input-Output Prompting (IO)



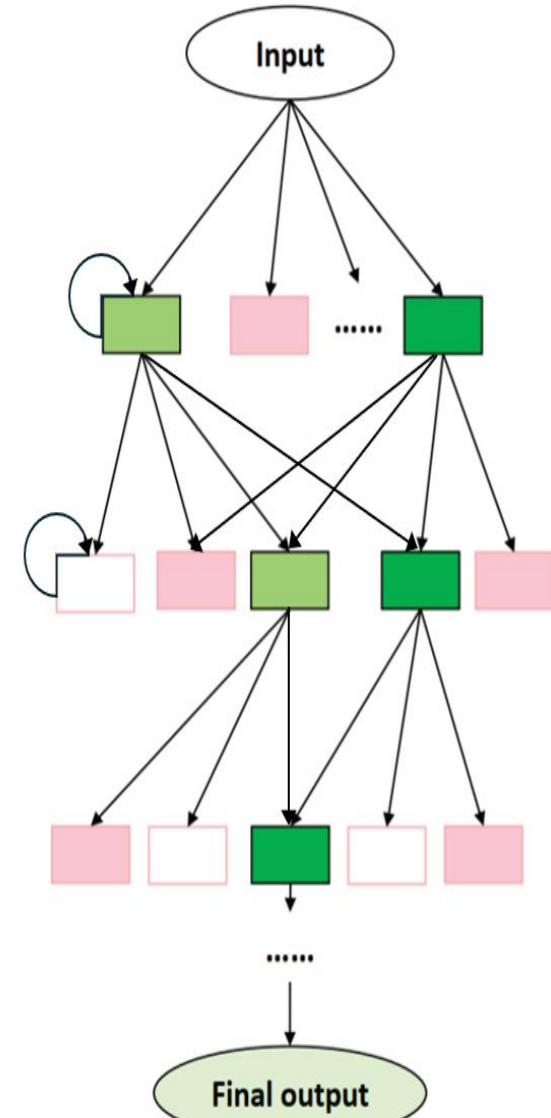
(b) Chain of Thought Prompting (CoT)



(c) Tree of Thought Prompting (ToT)

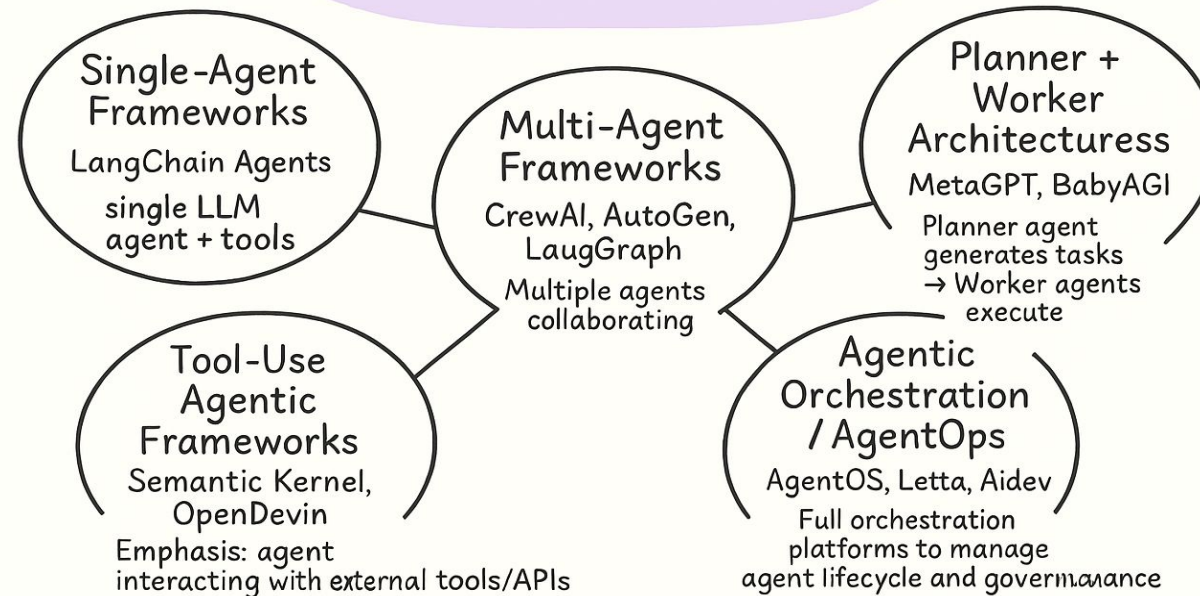


(d) Forest of Thought Prompting (FoT)



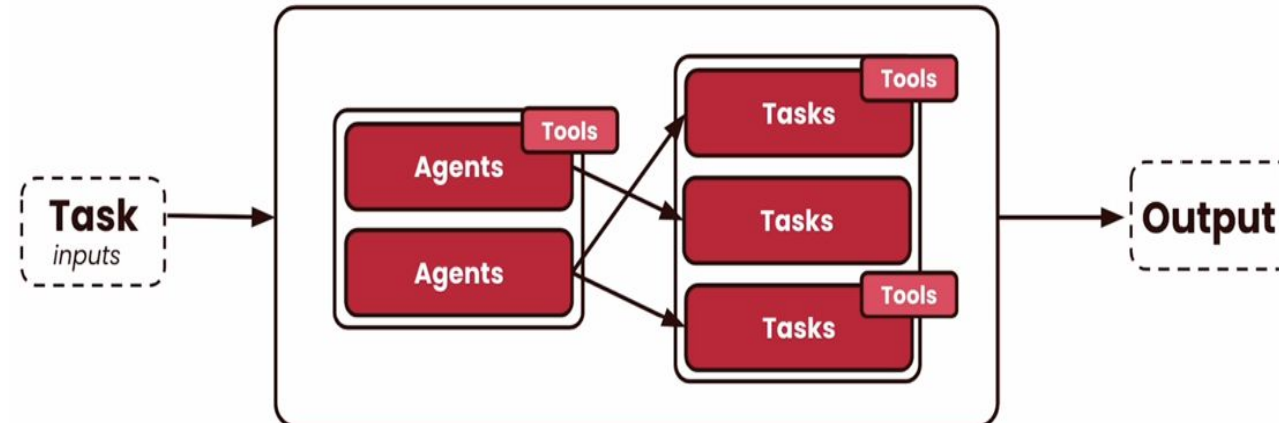
(e) Graph of Thought Prompting (GoT)

# Types of Agentic AI Frameworks

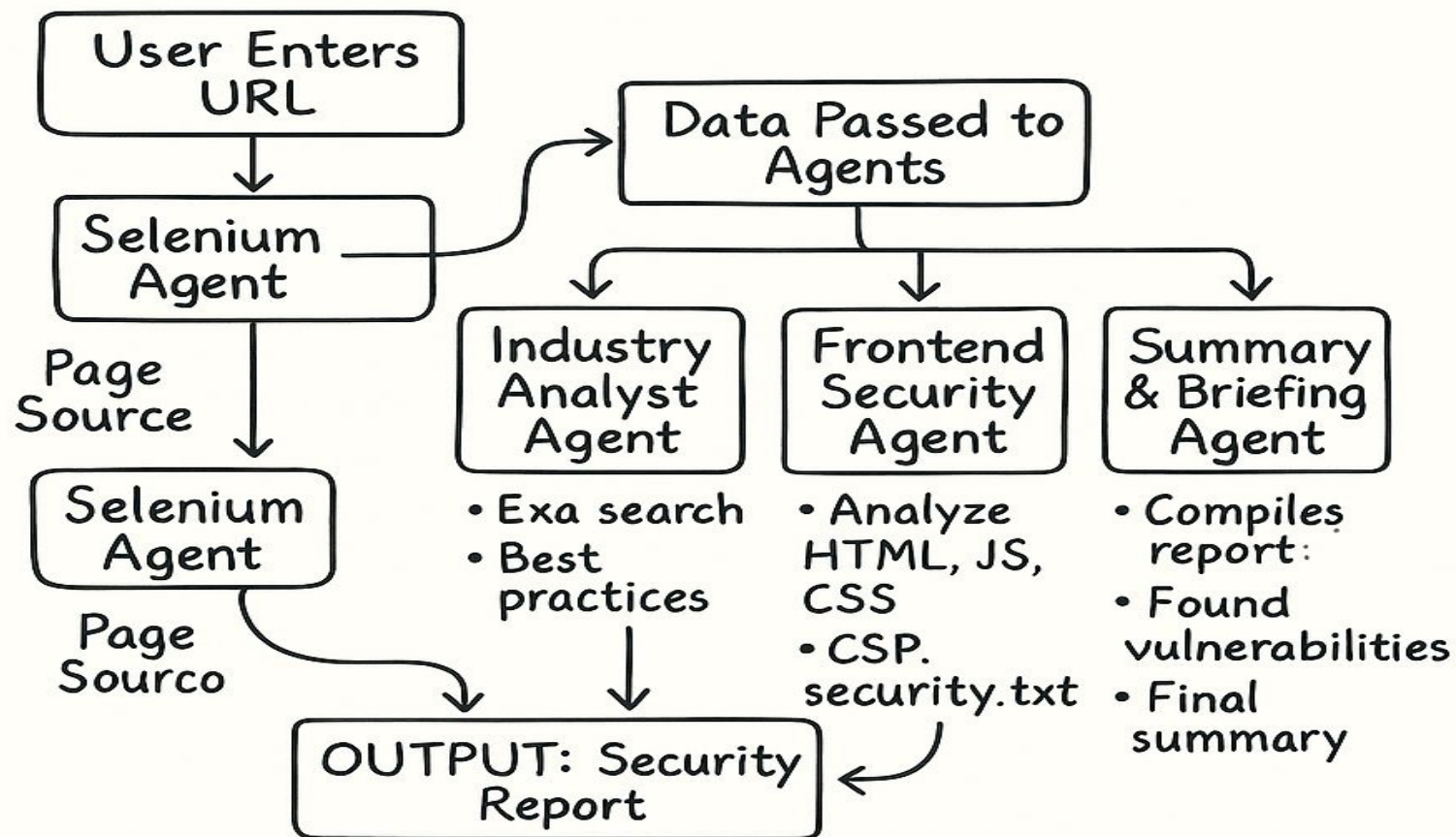


Agentic AI frameworks range from single-agent systems to complex multi-agent orchestration platforms.

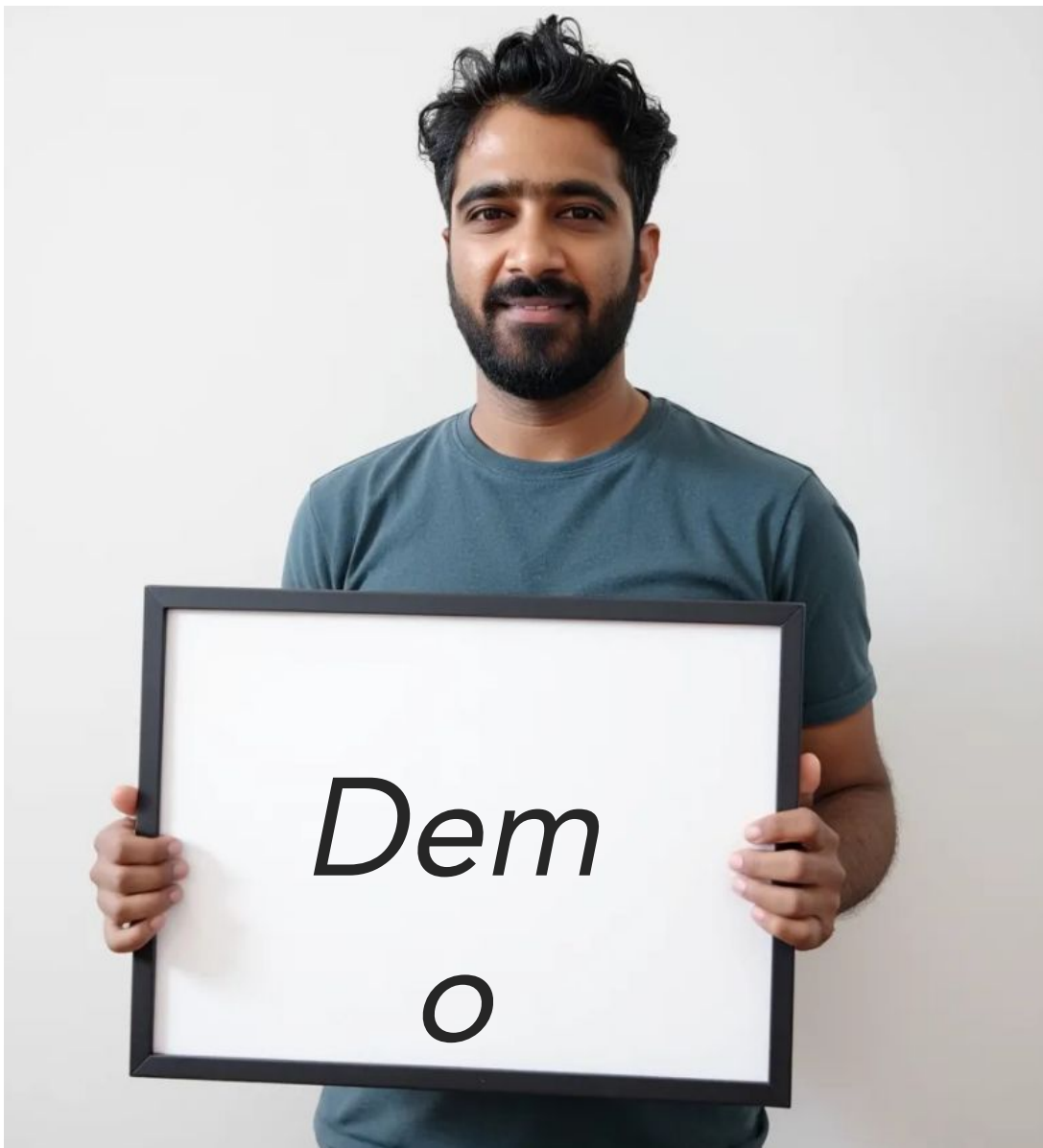
## Crew



# AGENTIC AI IN ACTION – SECURITY ANALYSIS DEMO



Our Agentic AI Crew uses a Sense → Plan → Act → Reflect loop to autonomously analyze website security and generate a professional security report



# Thank you

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