



AI & finance

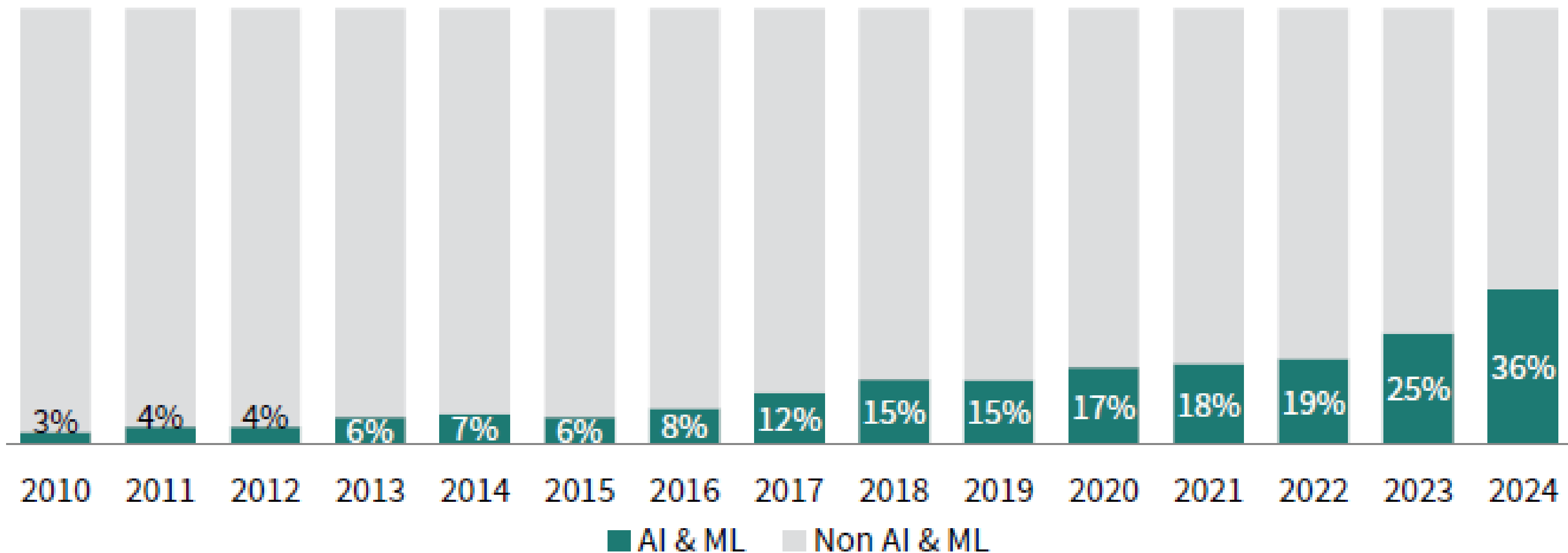
How Intelligence Becomes Capital



Were in a bubble

THE GLOBAL SHARE OF VC DEALS IN AI & MACHINE LEARNING HAS INCREASED

2010–24 • Percentage of all VC Deals Globally



Source: Pitchbook.

Notes: Data are based on deal-level investments made in each year. Figures include all global venture capital activity tracked by PitchBook, encompassing investments made by funds, as well as by other entities.

And its still growing

TECH • AI

Mira Murati's reported \$2 billion 'seed' funding suggests the AI boom is alive and well, even after a week of economic chaos



By Allie Garfinkle

Senior Finance Reporter And Author Of Term Sheet

April 10, 2025, 8:25 PM ET

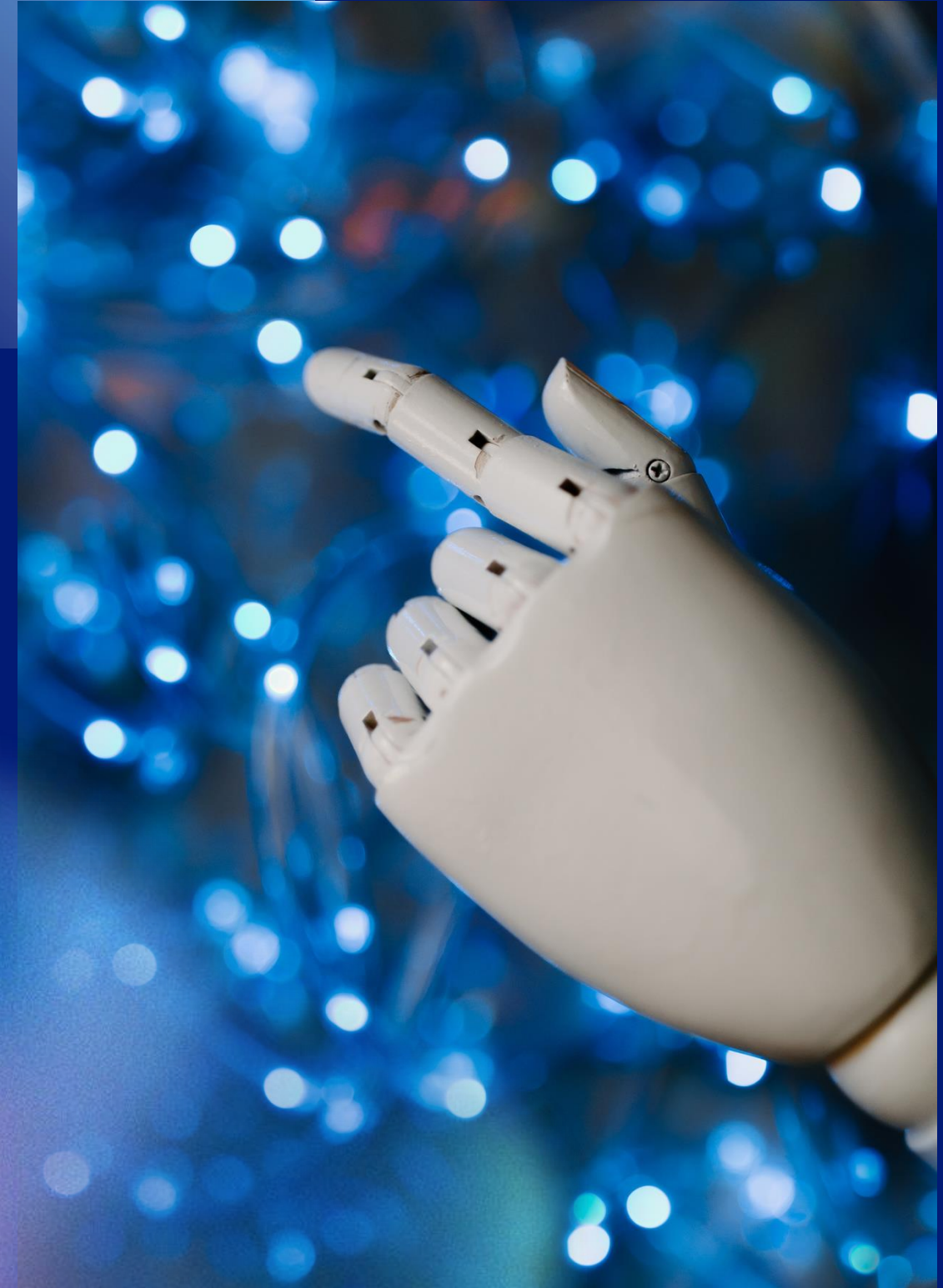
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Thinking Machines founder Mira Murati.

The latest circular AI deal stars Anthropic, Nvidia, and Microsoft

- Anthropic is spending \$30 billion on [Microsoft](#) Azure compute powered by Nvidia chips to help scale its Claude AI model.
- In return, Anthropic will receive up to \$5 billion from Microsoft and \$10 billion from Nvidia.



So where do you fit in?



This is the best time ever to affect and disrupt large systems



You will be the ones deploying the models, choosing which companies win, deciding which risks we accept.



GenAI: Cracking the Financial Services Tech Stack

Many startups are working on acquisition and data collection and focusing on lending and insurance





Key concepts in AI

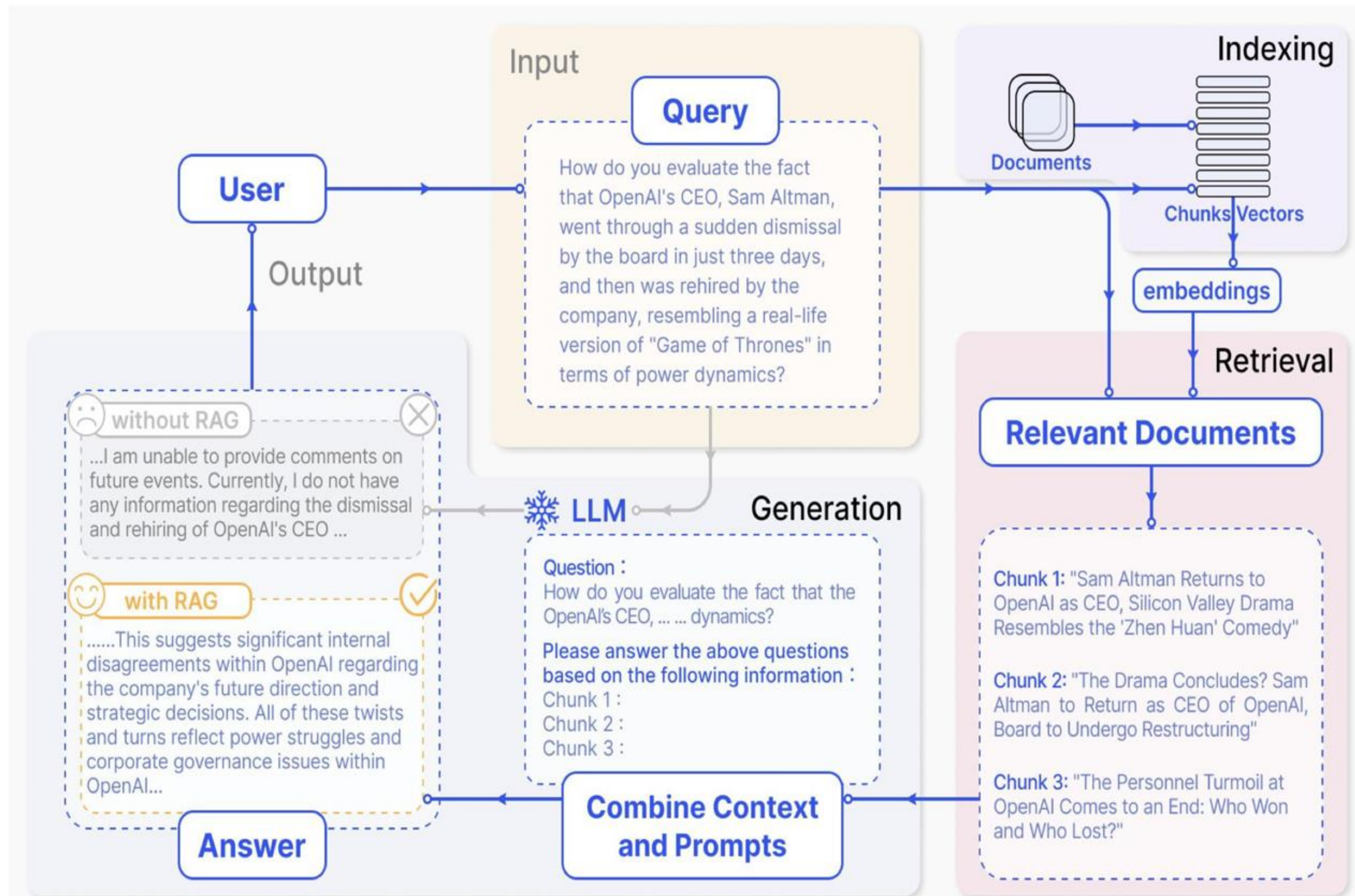
➡ Retrieval

➡ Fine tuning

➡ Reasoning

➡ Memory

Efficient retrieval



Parameter Efficient Fine-tuning methods

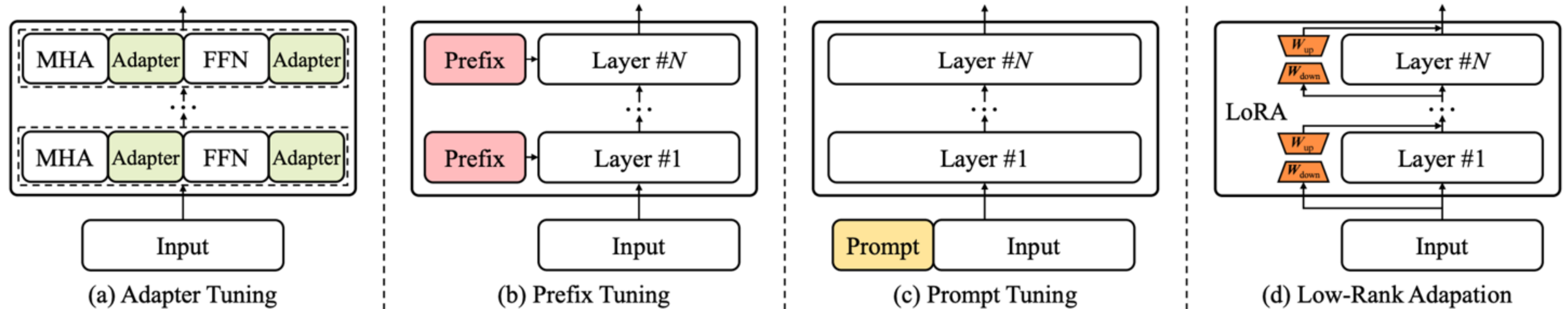


Fig. 13: An illustration of four different parameter-efficient fine-tuning methods. MHA and FFN denote the multi-head attention and feed-forward networks in the Transformer layer, respectively.

(Visual adapted from [Zhao et al. 2023](#)
“A Survey of Large Language Models”)

Zero-Shot Chain-of-Thought

(a) Few-shot

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: The answer is 11.

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A:

(Output) The answer is 8. ✗

(b) Few-shot-CoT

Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now?

A: Roger started with 5 balls. 2 cans of 3 tennis balls each is 6 tennis balls. $5 + 6 = 11$. The answer is 11.

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A:

(Output) The juggler can juggle 16 balls. Half of the balls are golf balls. So there are $16 / 2 = 8$ golf balls. Half of the golf balls are blue. So there are $8 / 2 = 4$ blue golf balls. The answer is 4. ✓

(c) Zero-shot

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A: The answer (arabic numerals) is

(Output) 8 ✗

(d) Zero-shot-CoT (Ours)

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there?

A: **Let's think step by step.**

(Output) There are 16 balls in total. Half of the balls are golf balls. That means that there are 8 golf balls. Half of the golf balls are blue. That means that there are 4 blue golf balls. ✓

Memory in LLMs

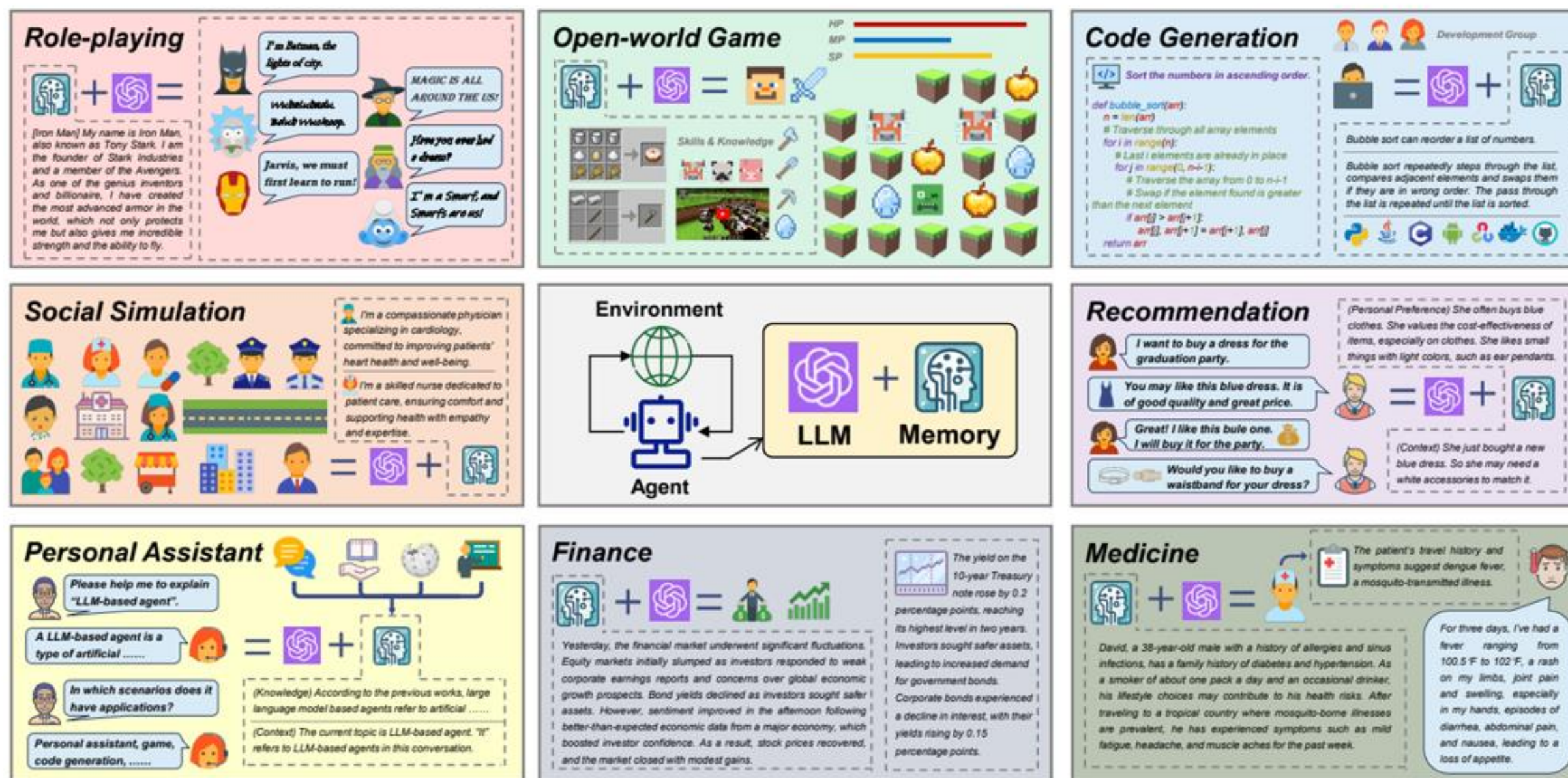


Figure 1: The importance of the memory module in LLM-based agents.

(Visual adapted from [Zhang et al. 2024](#) "A Survey on the Memory Mechanism of Large Language Model based Agents")



Don't be a stranger

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