

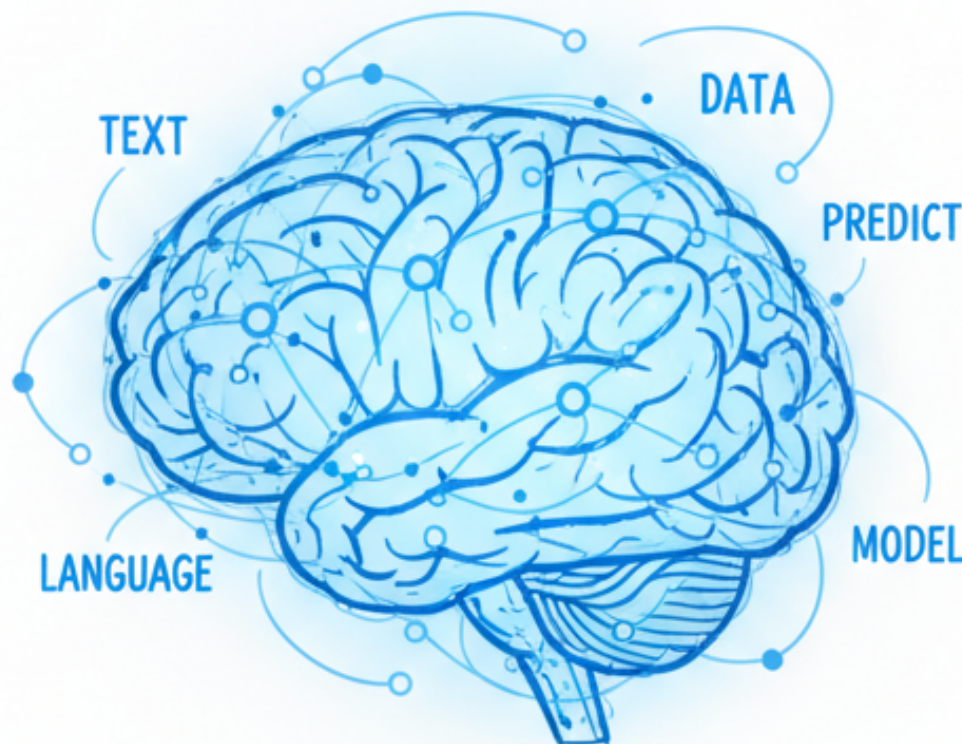
# GENERATIVE AI SERIES: DAY 8

## What's the “Brain” Behind CHATGPT?

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Let's uncover the magic of

**Large Language Models** (LLMs! 🧠)

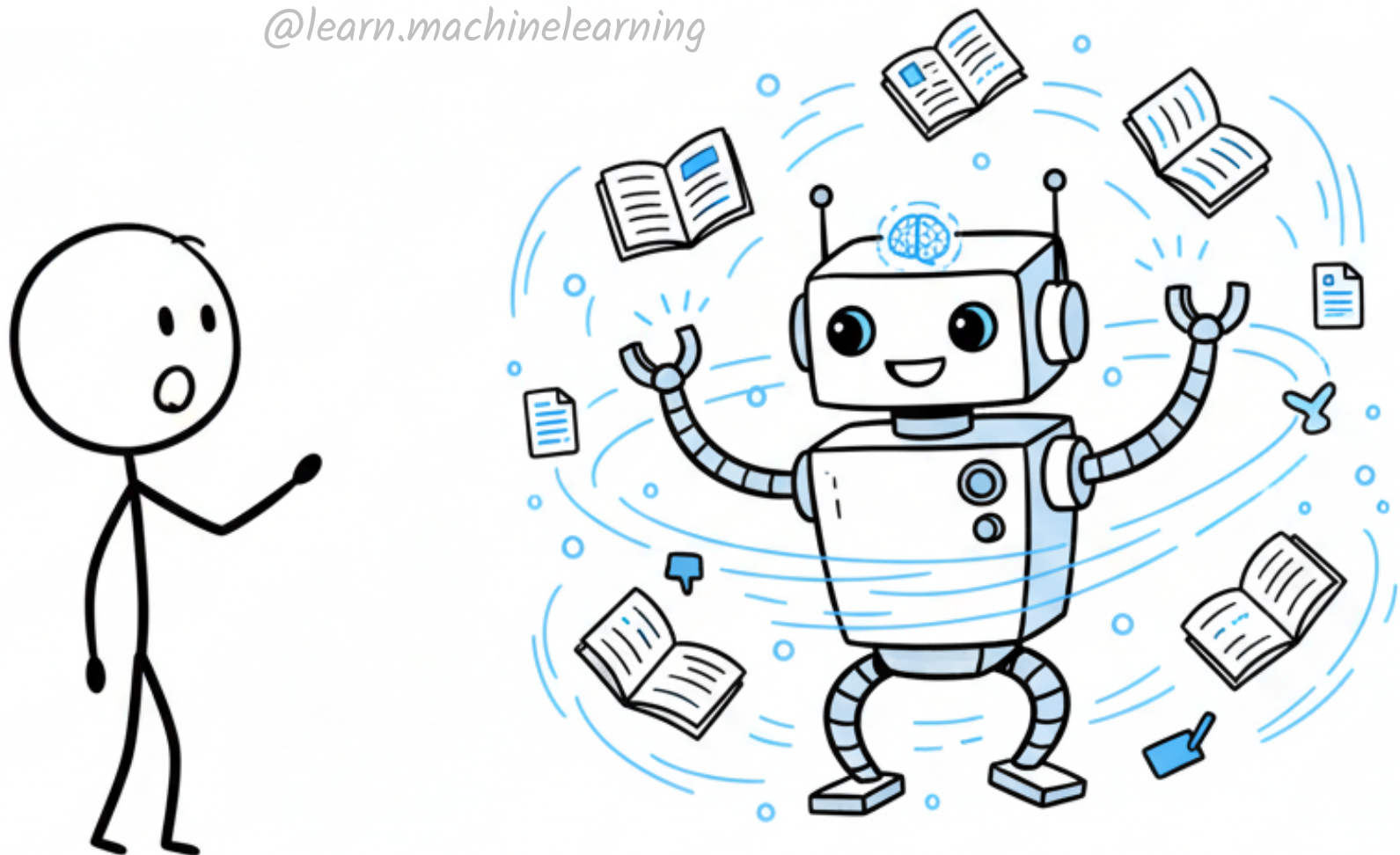


# What is a Large Language Model?

An LLM is a type of AI (built using Transformer architecture, like we learned on Day 4!) that has been trained on a massive amount of text data to understand and generate human-like language.

Analogy: Think of it as a super-librarian who has read almost every book on the internet and can now write new ones on any topic!

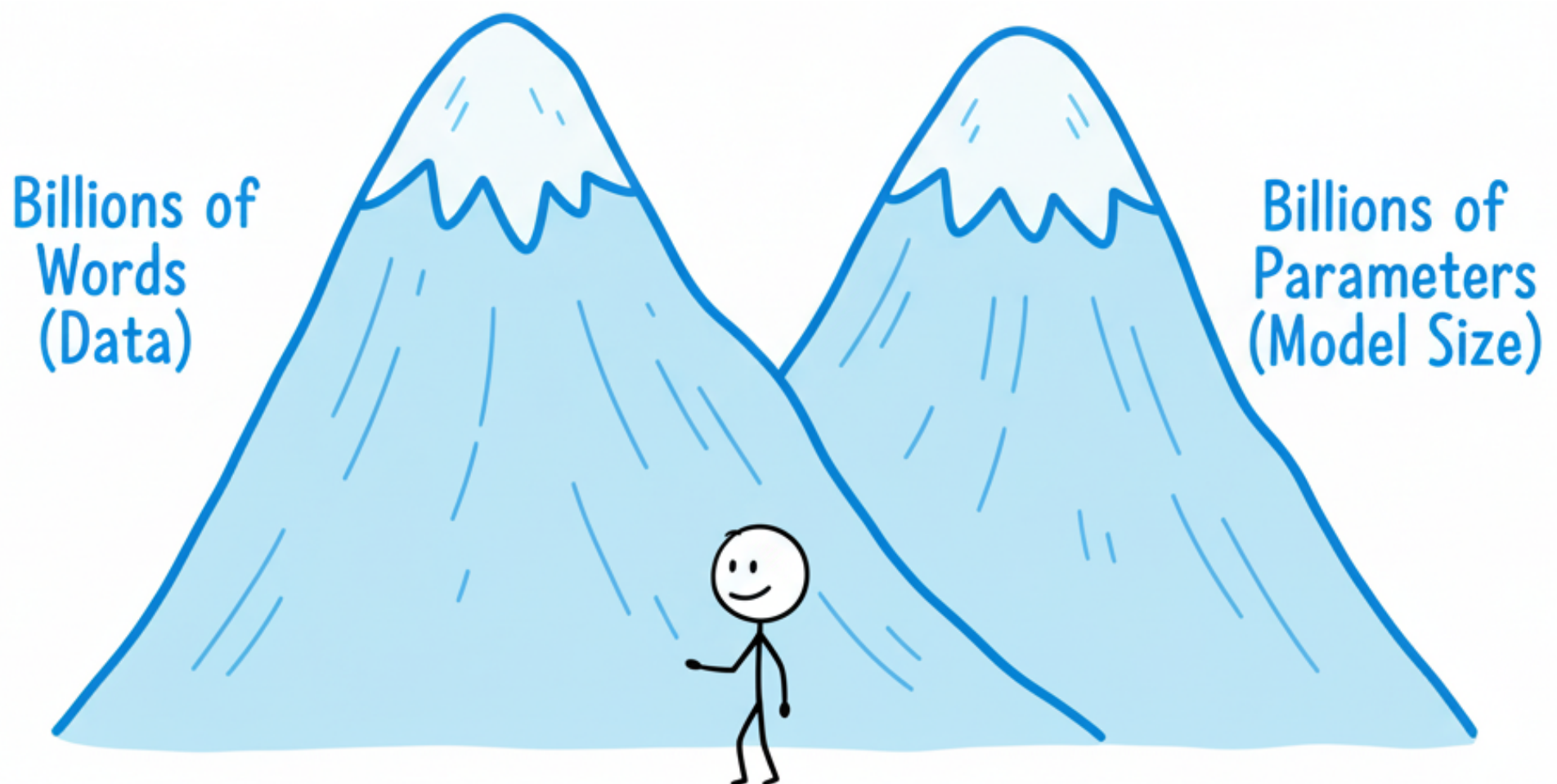
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# How Large is “Large?”

We're talking about two main things:

- Massive Data: Trained on billions of words, sentences, and articles from books, websites, and more. *@learn.machinelearning*
- Huge Models: Contains billions of "parameters" (think of these as the model's internal "knobs" or "neurons" it uses to make connections)



# How Does It Actually 'Think'?

At its heart, an LLM is a powerful prediction engine. Its fundamental job is to predict the next most likely word in a sequence, based on all the text it has learned.

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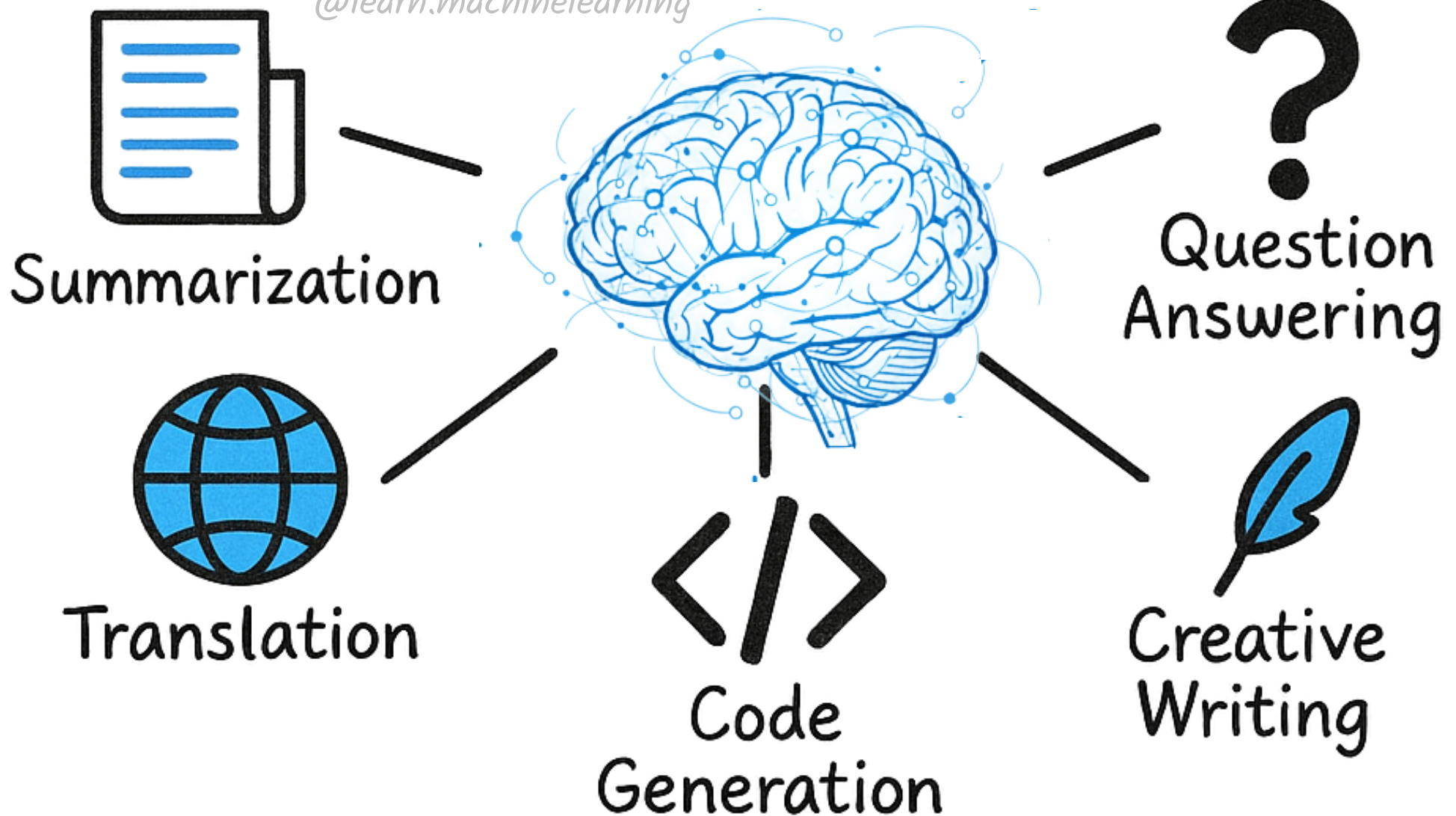


Example: If you give it 'The best street food in Hyderabad is...', it calculates the most probable word to come next (e.g. 'biryani,' 'chaat','dosa').

# From Prediction to Powerful Skills!

By being incredibly good at predicting the next word, LLMs develop amazing “emergent” abilities, including:

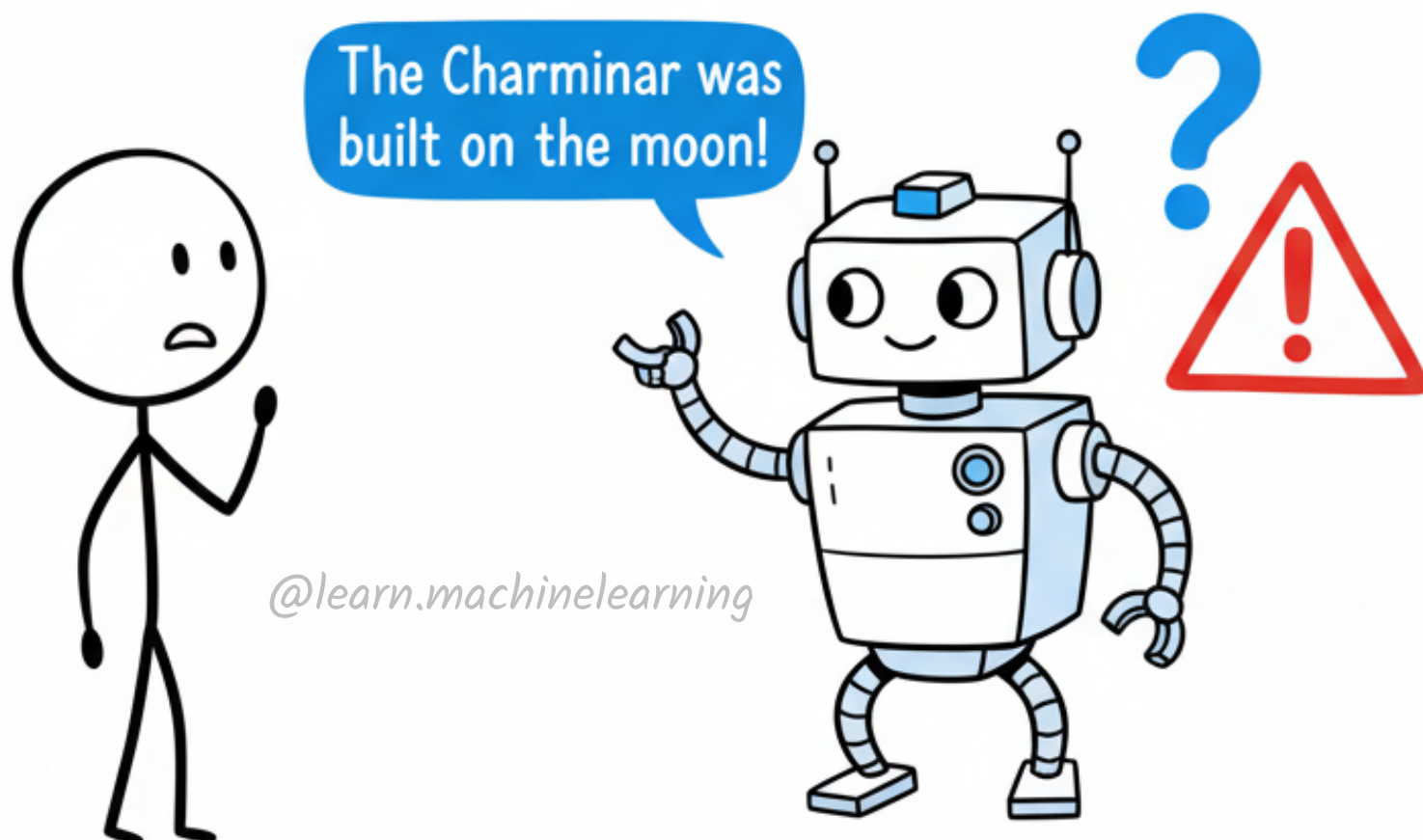
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# A Word of Caution: LLMs Can 'Hallucinate'!

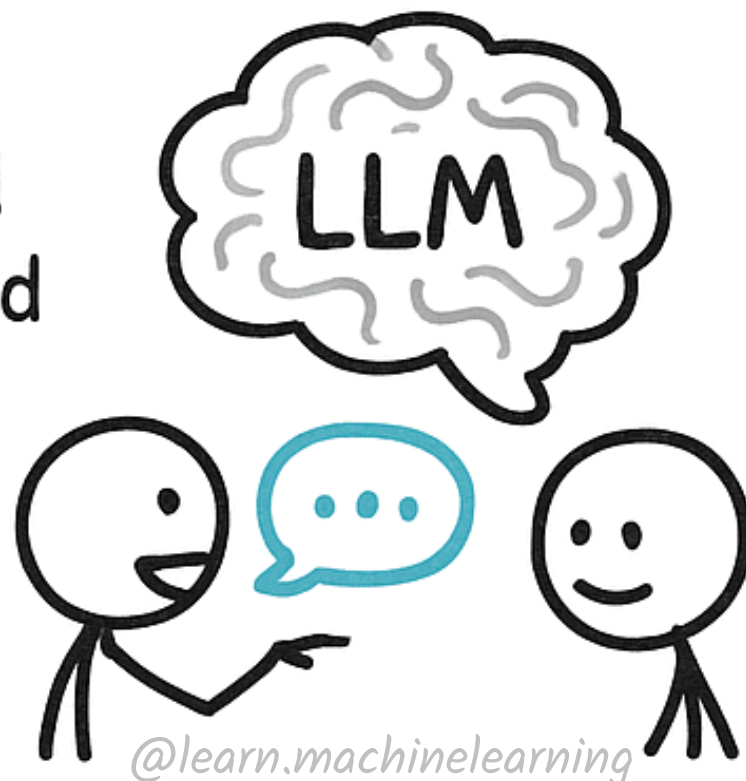
Since an LLM's goal is to generate plausible text (not necessarily true text), it can sometimes confidently make up facts, sources, or details.

**Key Takeaway:** Always double-check important information! They are creative partners, not perfect truth machines.



# Day 8 Takeawa: LLMS are Pattern Masters!

Large Language Models are sophisticated AI brains trained on vast text data to understand patterns and predict the next word, enabling them to generate human-like text for a huge variety of tasks.



Day 9: A Visual Deep Dive - How Midjourney Creates Art!



What's the most amazing (or funny) thing an LLM generated on you? Share below! ↓



Follow [@learn.machinelearning](https://twitter.com/learn.machinelearning) for the full series!



SAVE this to remember how LLMS really work!