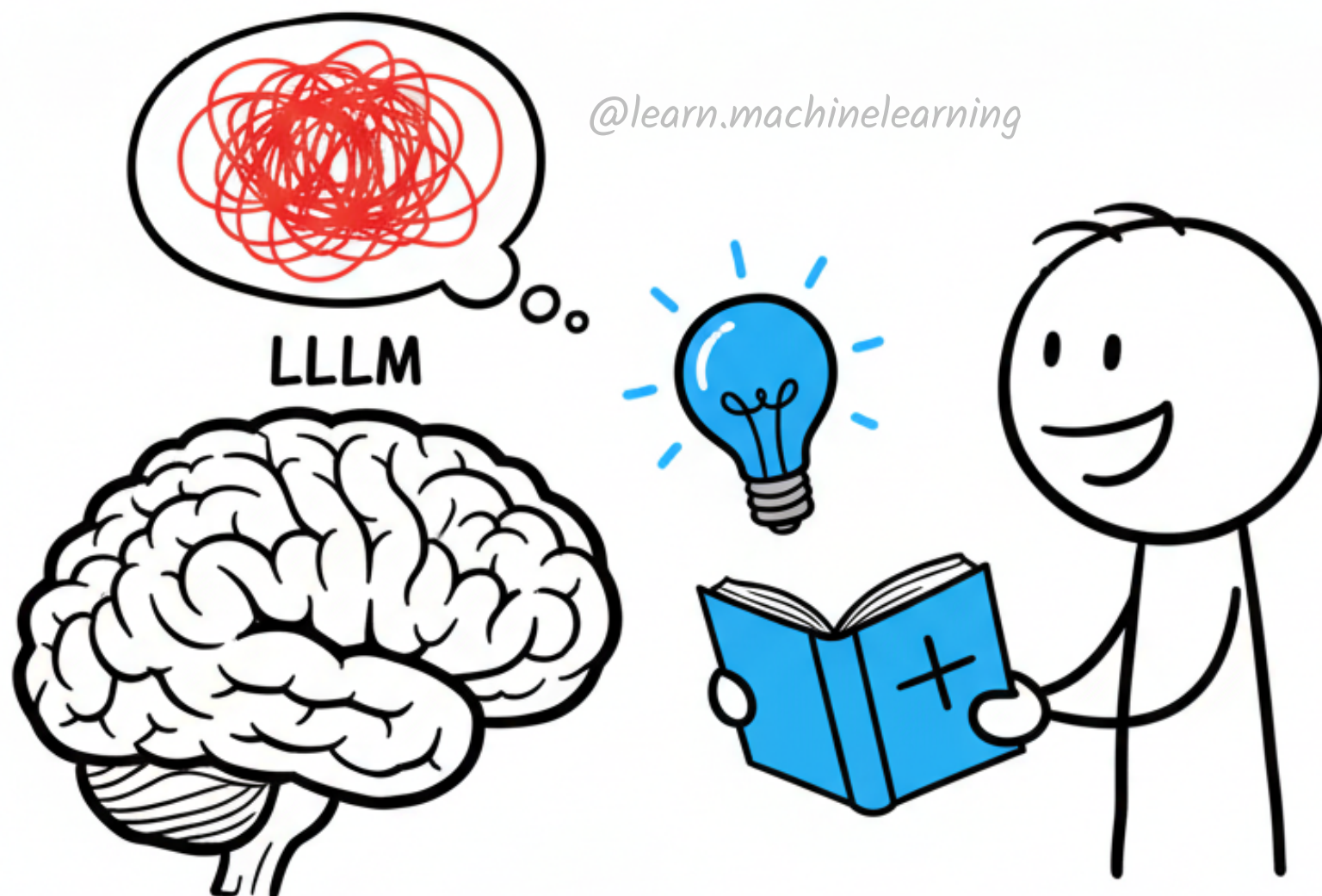


GENERATIVE AI SERIES: DAY 14

The End of AI Hallucinations? Meet RAG!

Let's learn the secret tech that makes AI smarter, more accurate, and trustworthy! 💡+📖

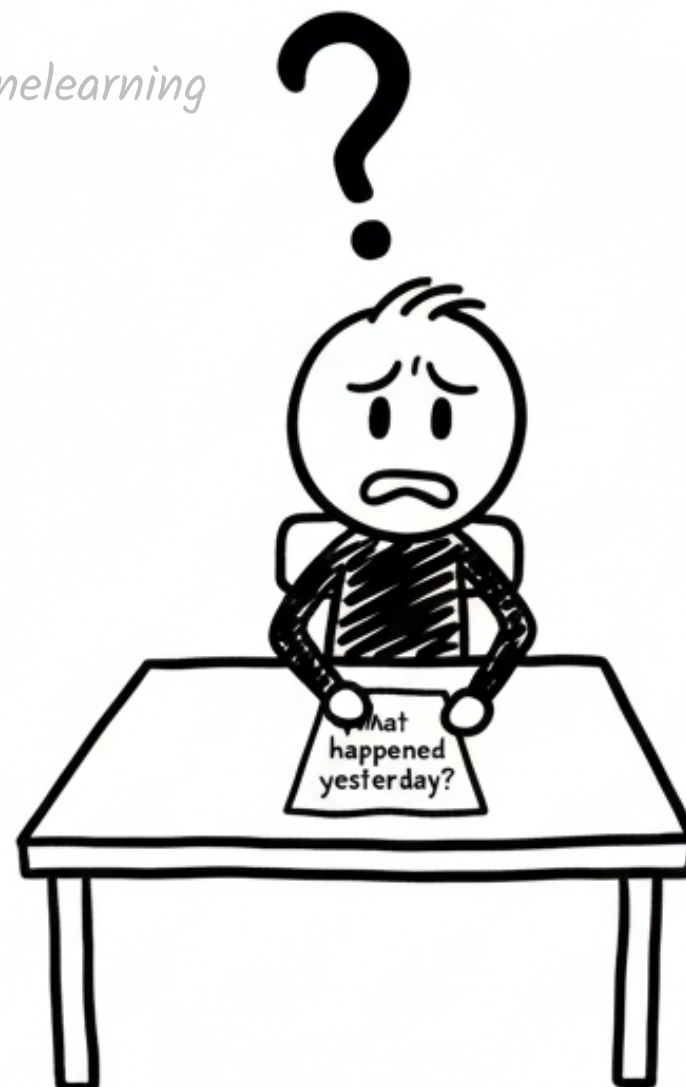


The LLM's Big Limitation

As we learned, a standard LLM is like a student taking a 'closed-book exam.' It can only use a knowledge it trained on (which can be outdated).

The Result: If you ask about recent events or specific private data, it can't answer or, worse, it makes things up ('hallauchates.')

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RAG: Retrieval-Augmented Generation

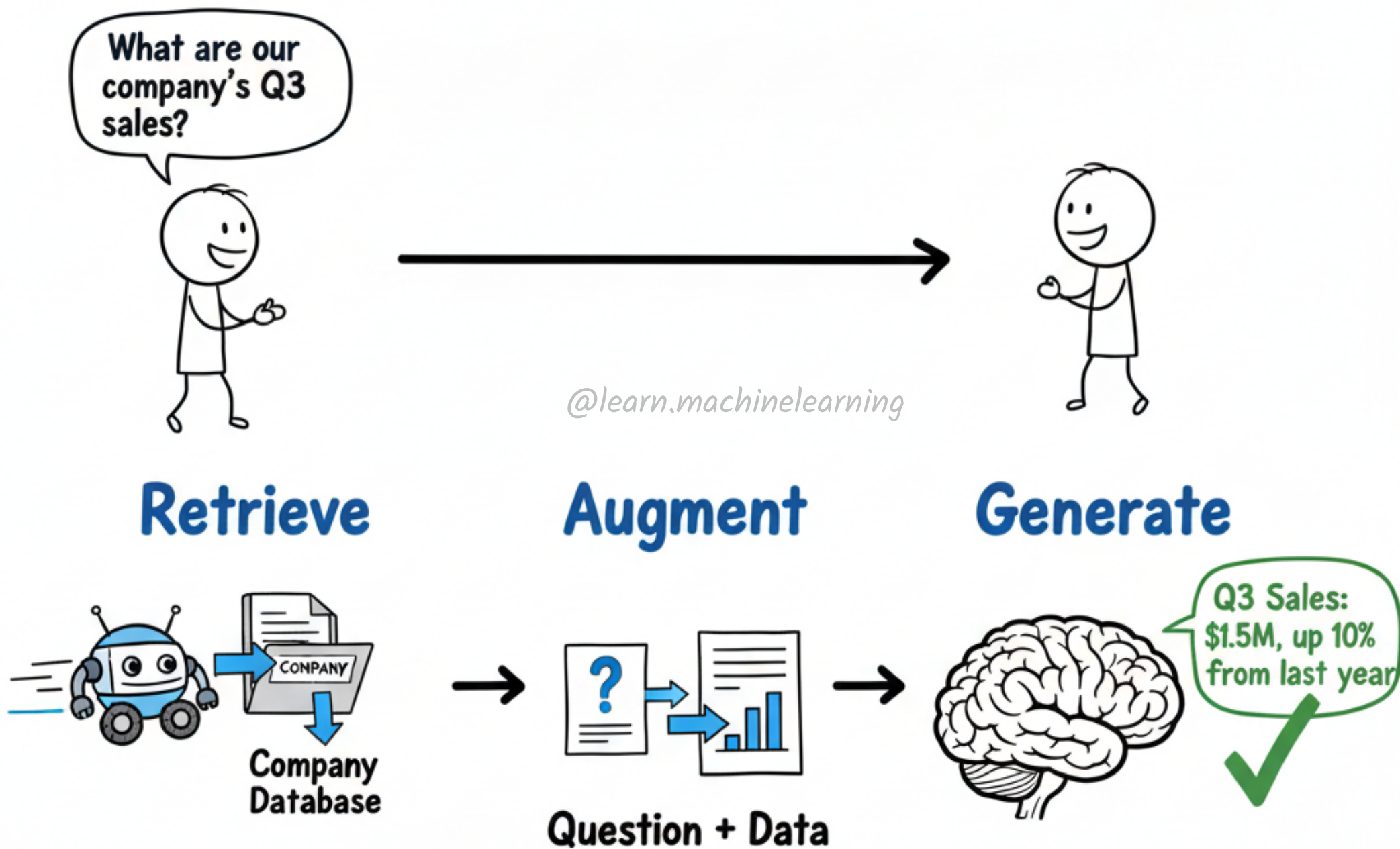
RAG gives the LLM a 'cheat sheet' or an 'open book' just before it answers your question!

- **Retrieval:** It finds relevant, *up-to-date* information from external knowledge source.
- **Augumetation** It adds this information to your original prompt.
- **Generation:** The LLM then answers your question using this new -rich context.

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The RAG Workflow

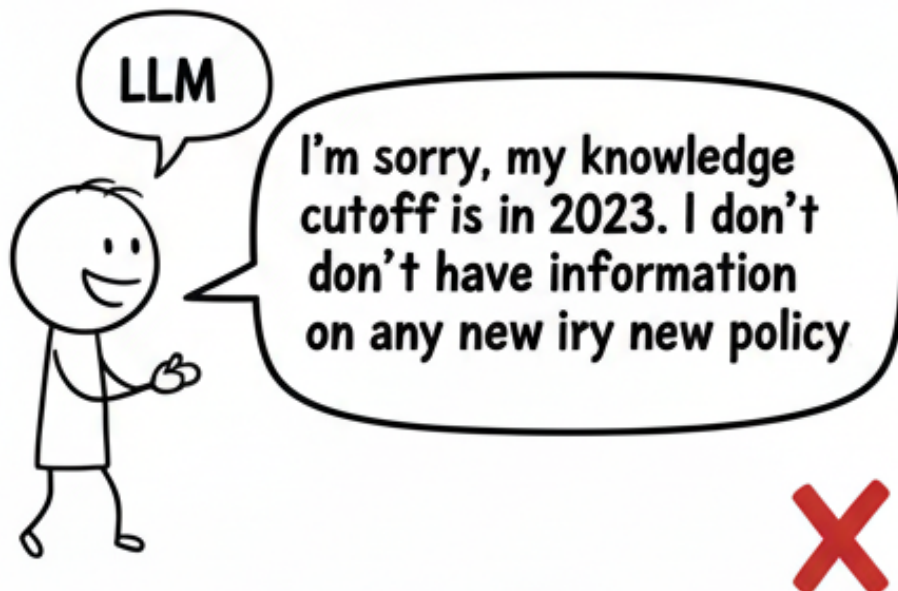


Let's See It in Action!

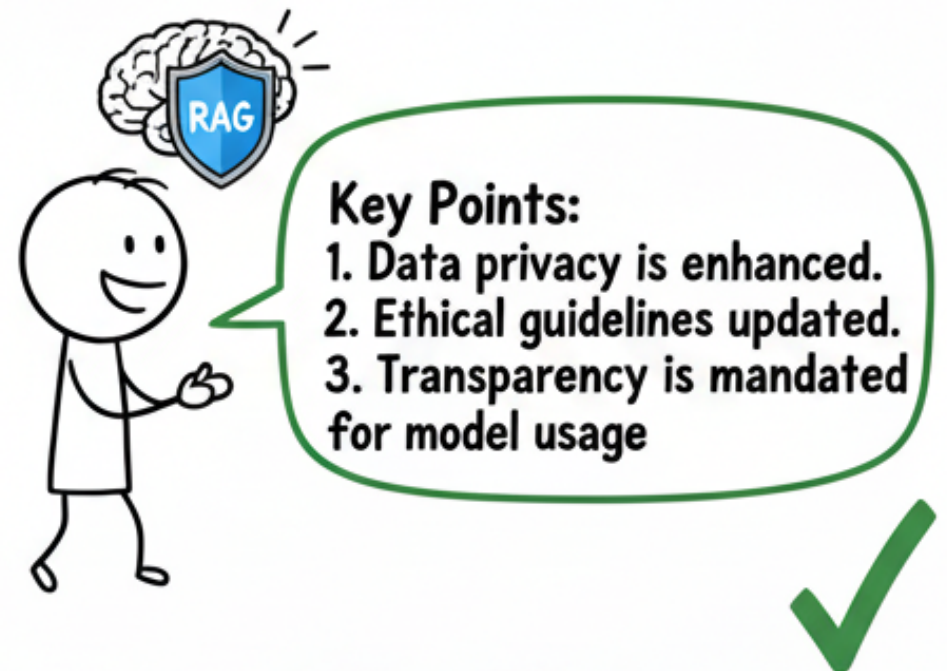
Prompt: “Summarize the key points of the new AI policy document released this morning.”

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✗ WITHOUT RAG



✓ WITH RAG



The Power of Grounded Answers

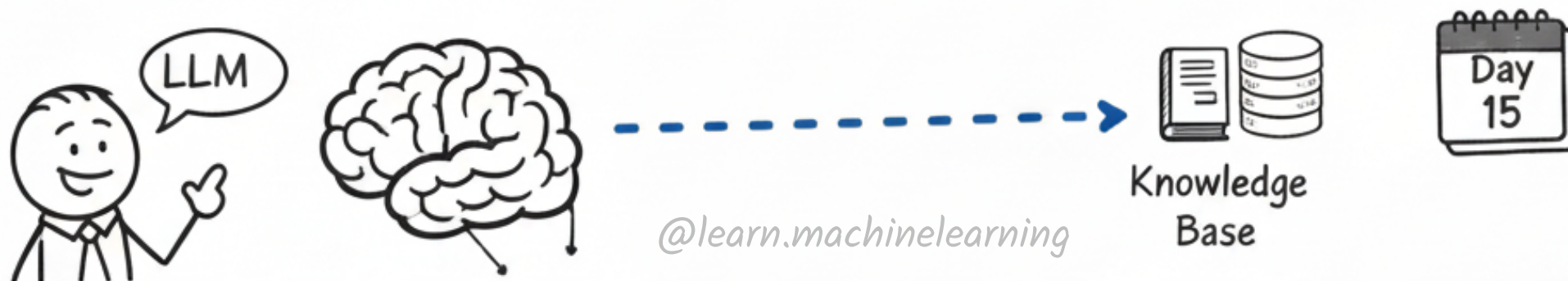
RAG is a massive leap for practical AI use because it provides:

- **ACCURACY**: Drastically reduces hallucinations by grounding answers in real data.
- **CURRENT INFO**: Allows AI to use real-time, up-to-the-minute information. *@learn.machinelearning*
- **CUSTOM KNOWLEDGE**: Lets you connect AI to your private data (company files, personal notes, etc.).
- **TRACEABILITY**: It can often cite its sources, so you know where the answer came from



Day 14 Takeaway: Smarter AI with Open Books!

RAG makes LLMs more reliable and useful by connecting them to external knowledge sources, ensuring their answers are grounded in facts, not just their training data.



Next Up: Day 15: AI Agents - Vector Embeddings!

What private data would you want your personal AI to have access to? (e.g., emails, messages, notes) Let's discuss! ↓

Follow @learn.machinelearning for the full series!

SAVE this to understand how to make AI trustworthy!

Comment



Save