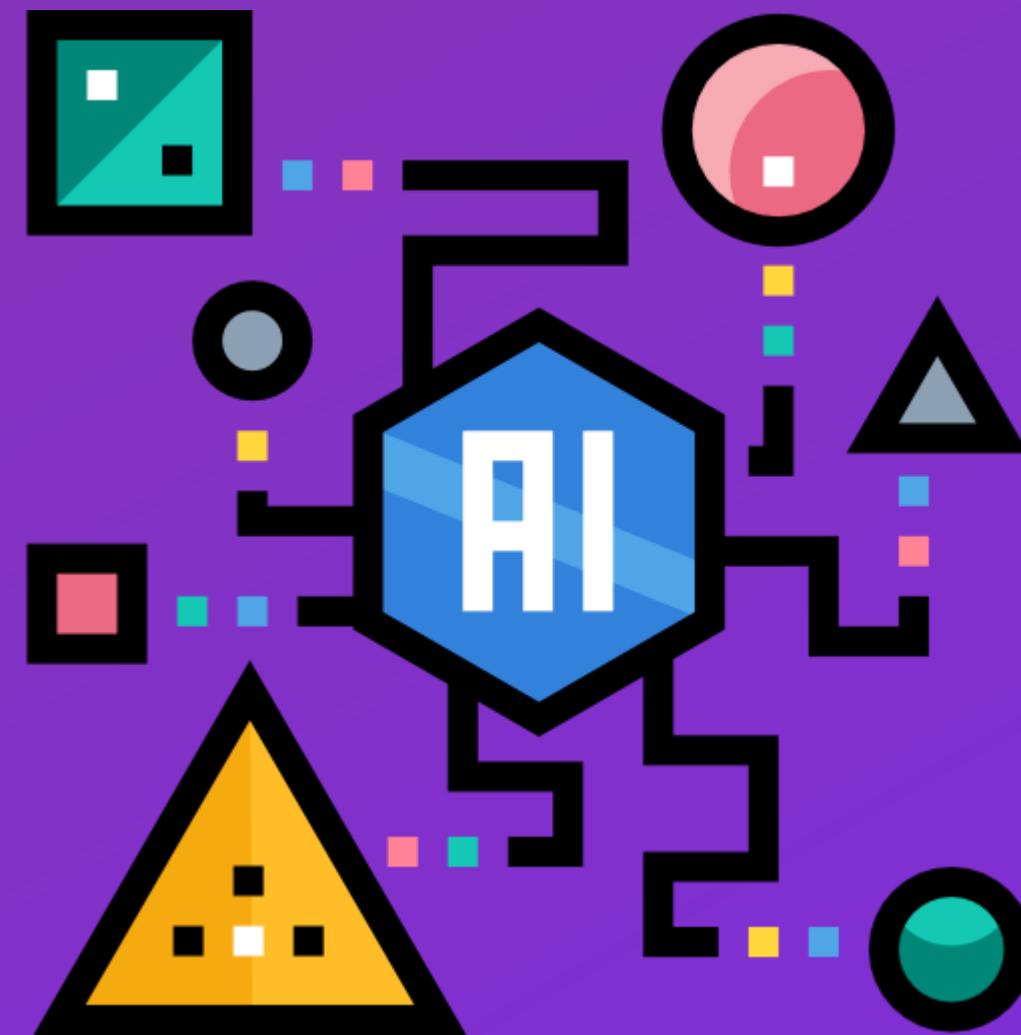
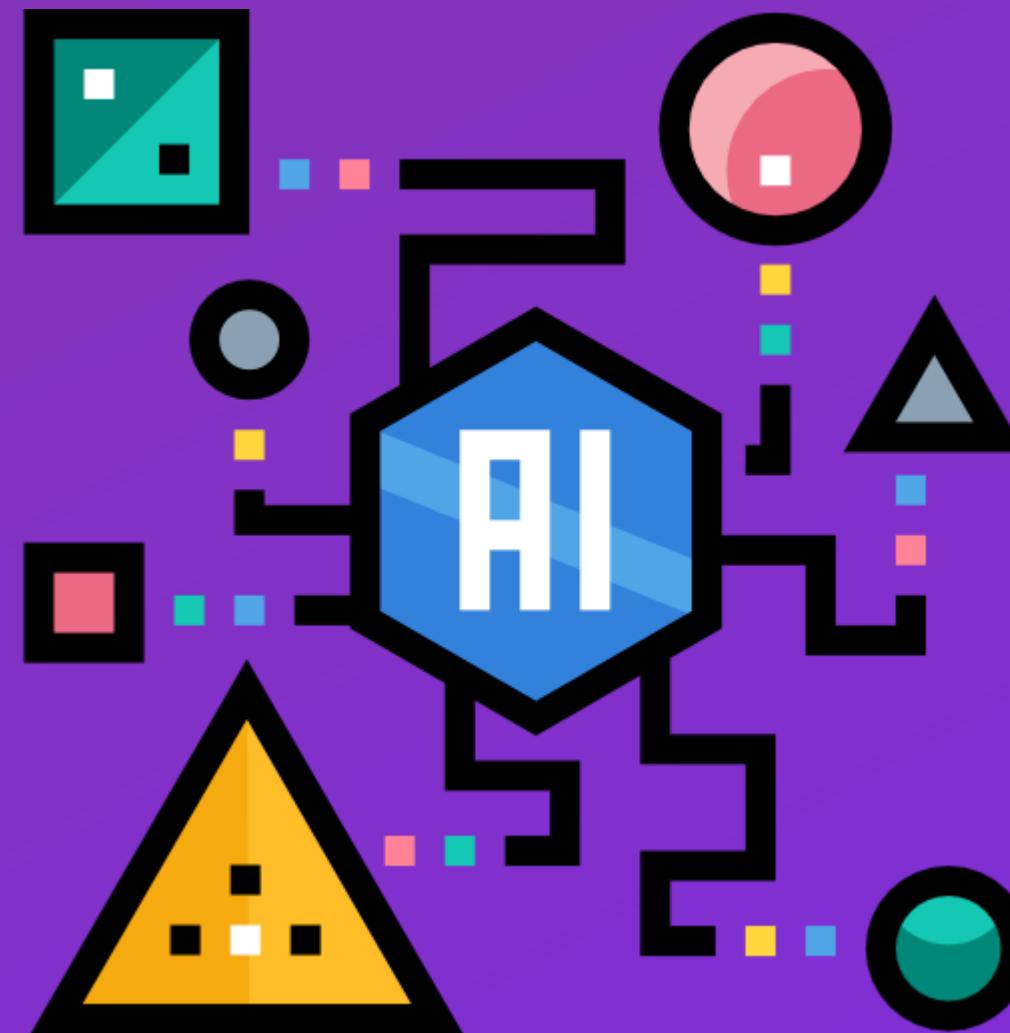
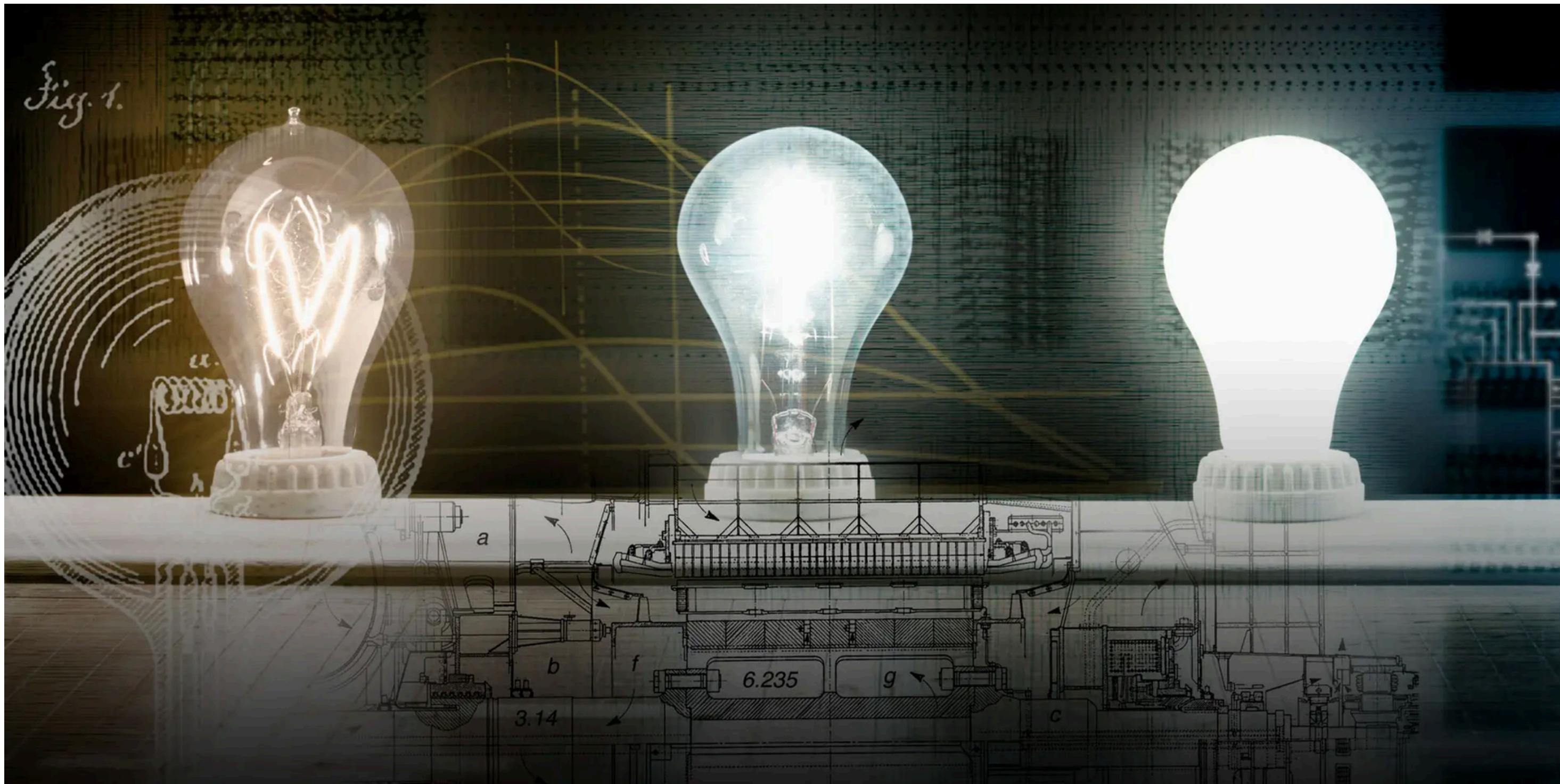


# Python for GenAI

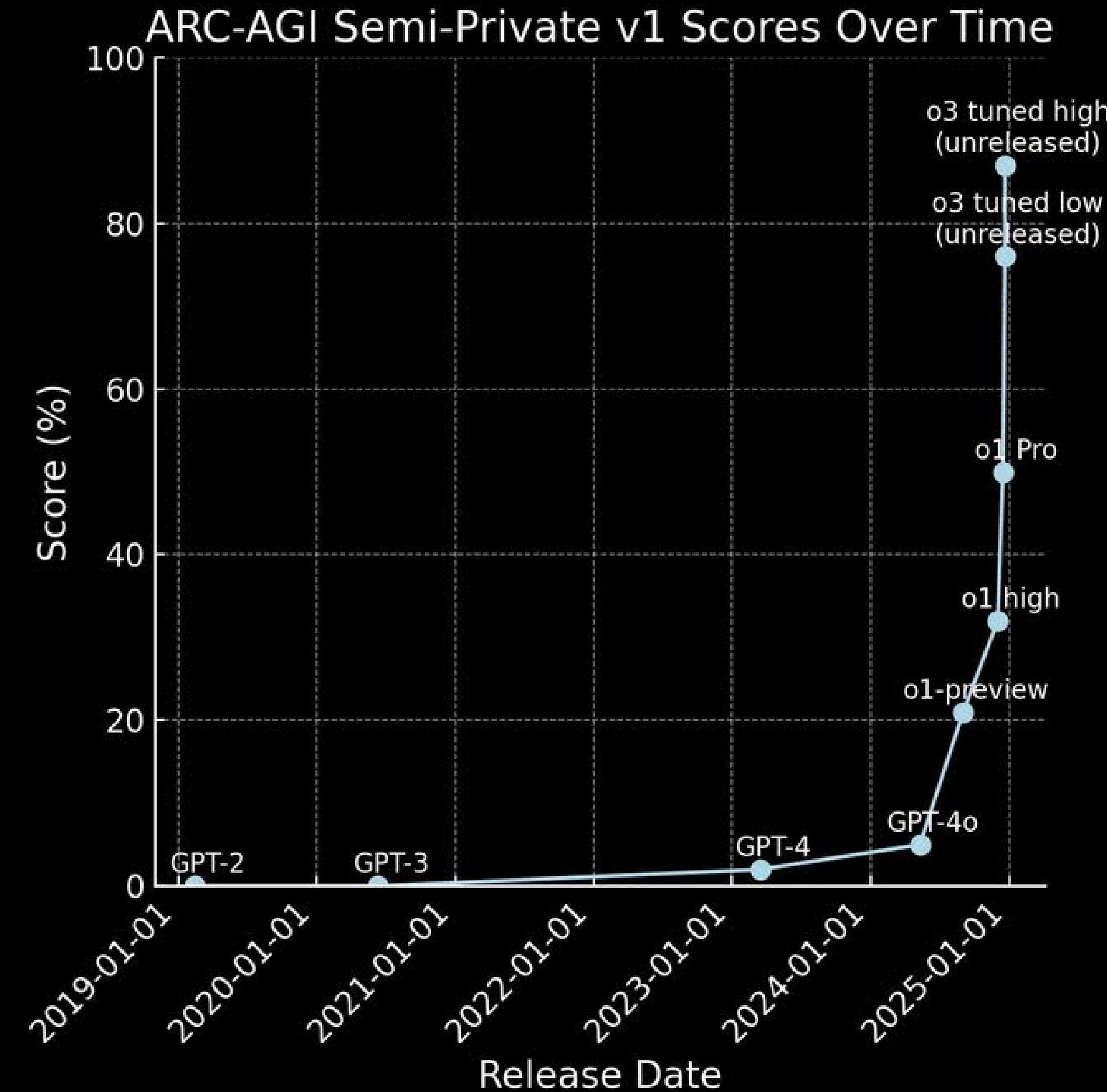


# LLMs, APIs and Python GenAI Libraries





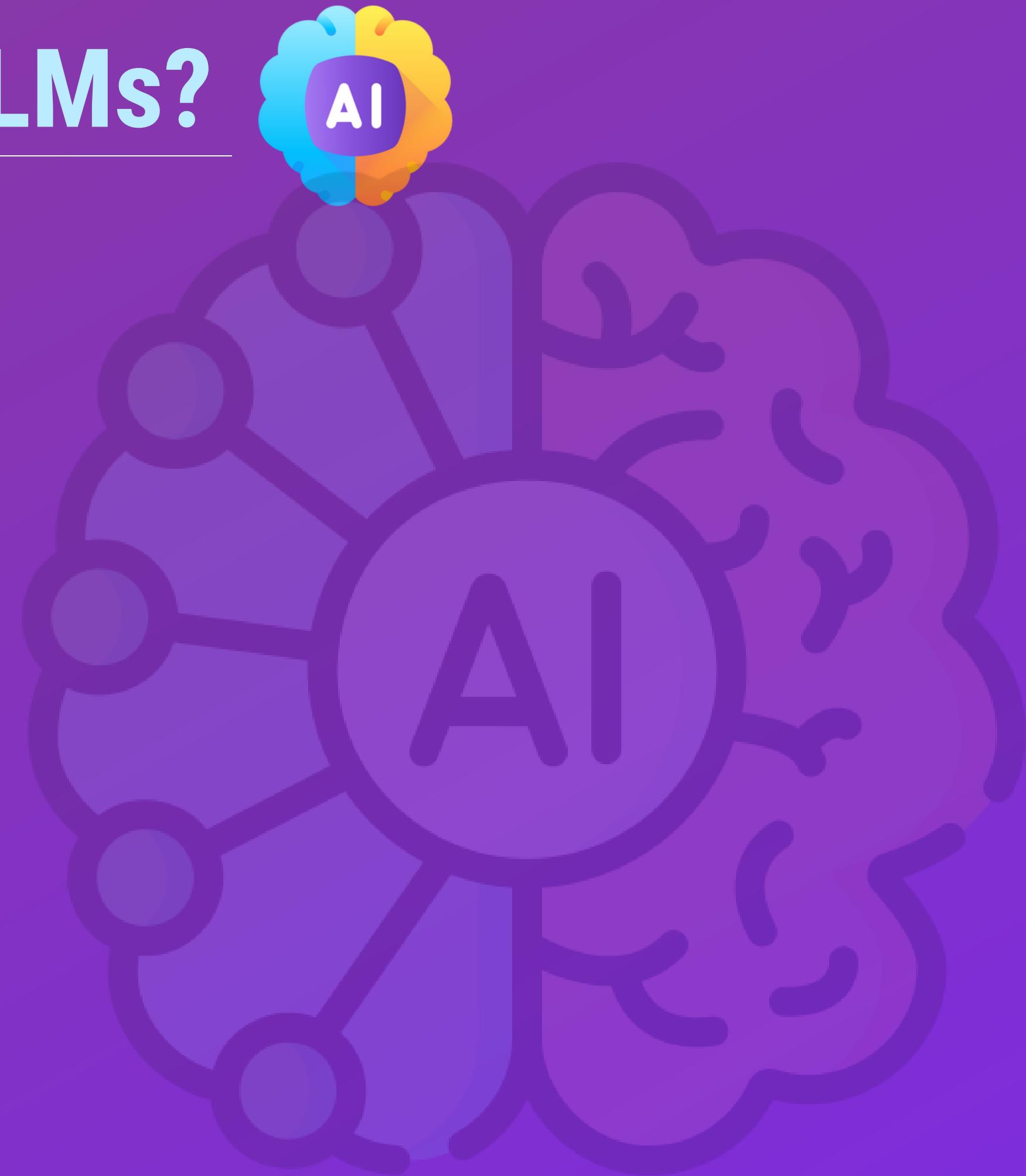






# What are LLMs?

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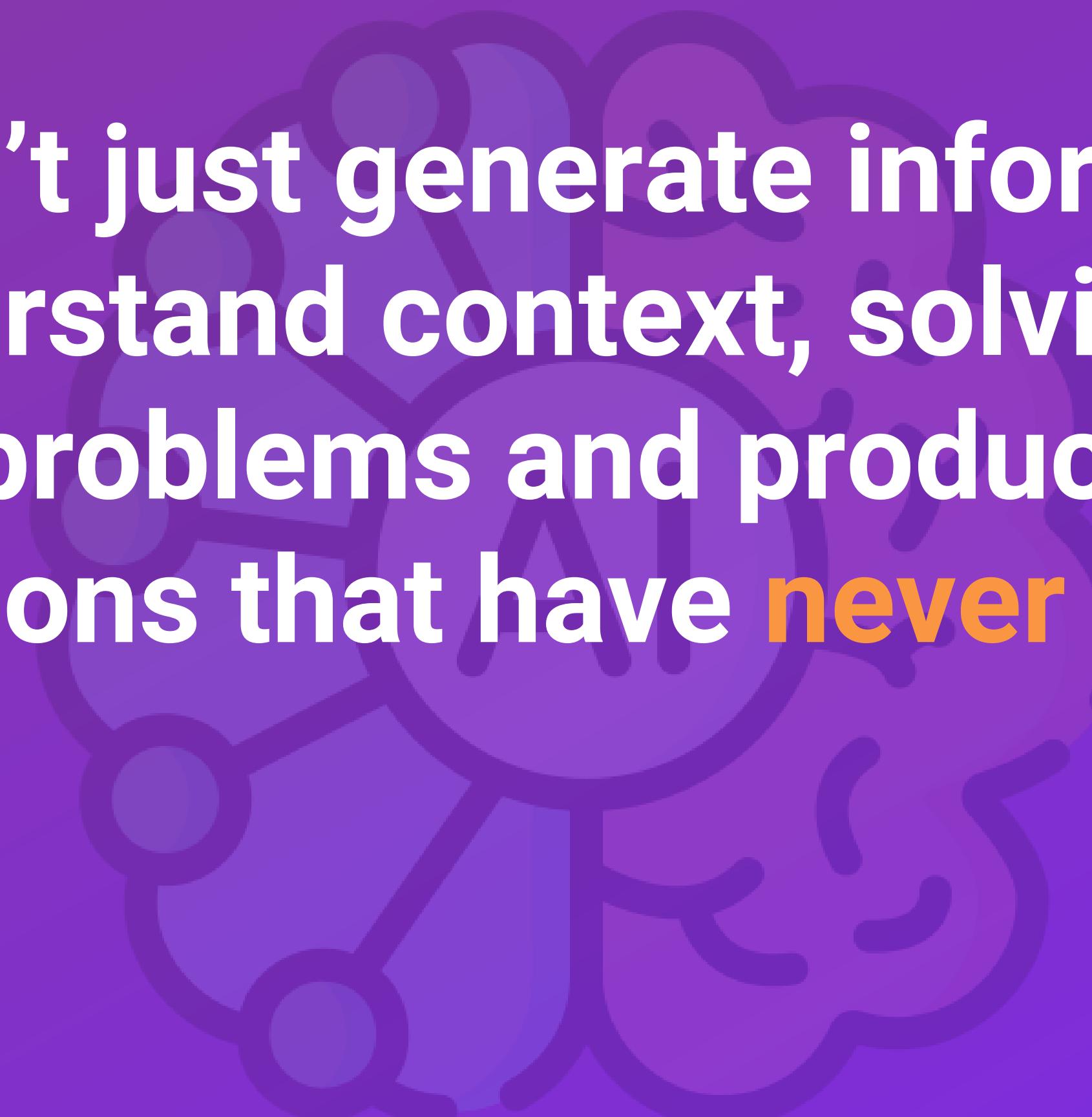
**LLMs** are advanced AI systems designed to process and generate human-like text.

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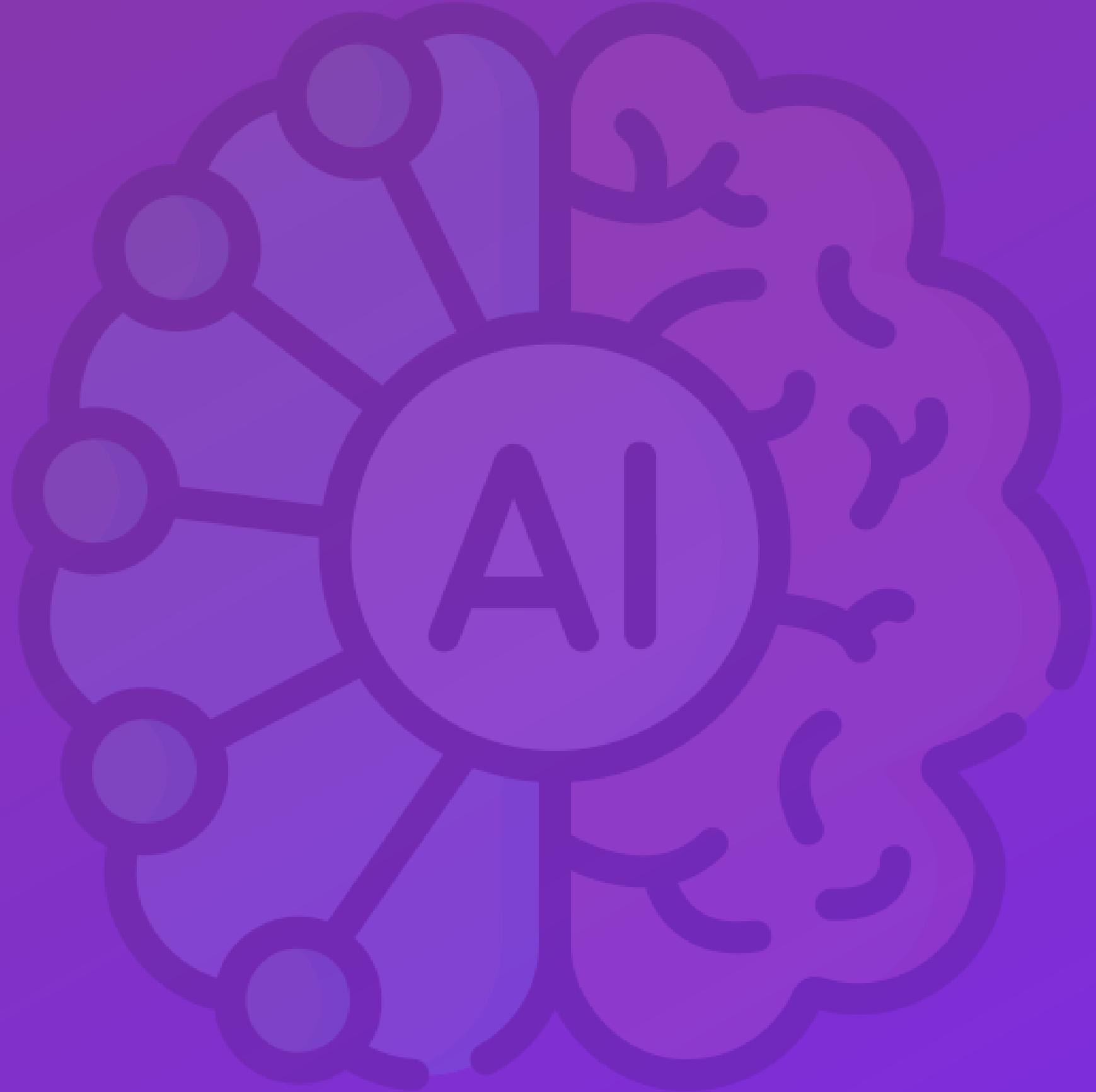
They're trained on vast collections of data, learning how humans communicate, think, and create.



LLMs don't just generate information; they understand context, solving complex problems and producing ideas and solutions that have never existed before.

# Why Are They Called Large Language Models?

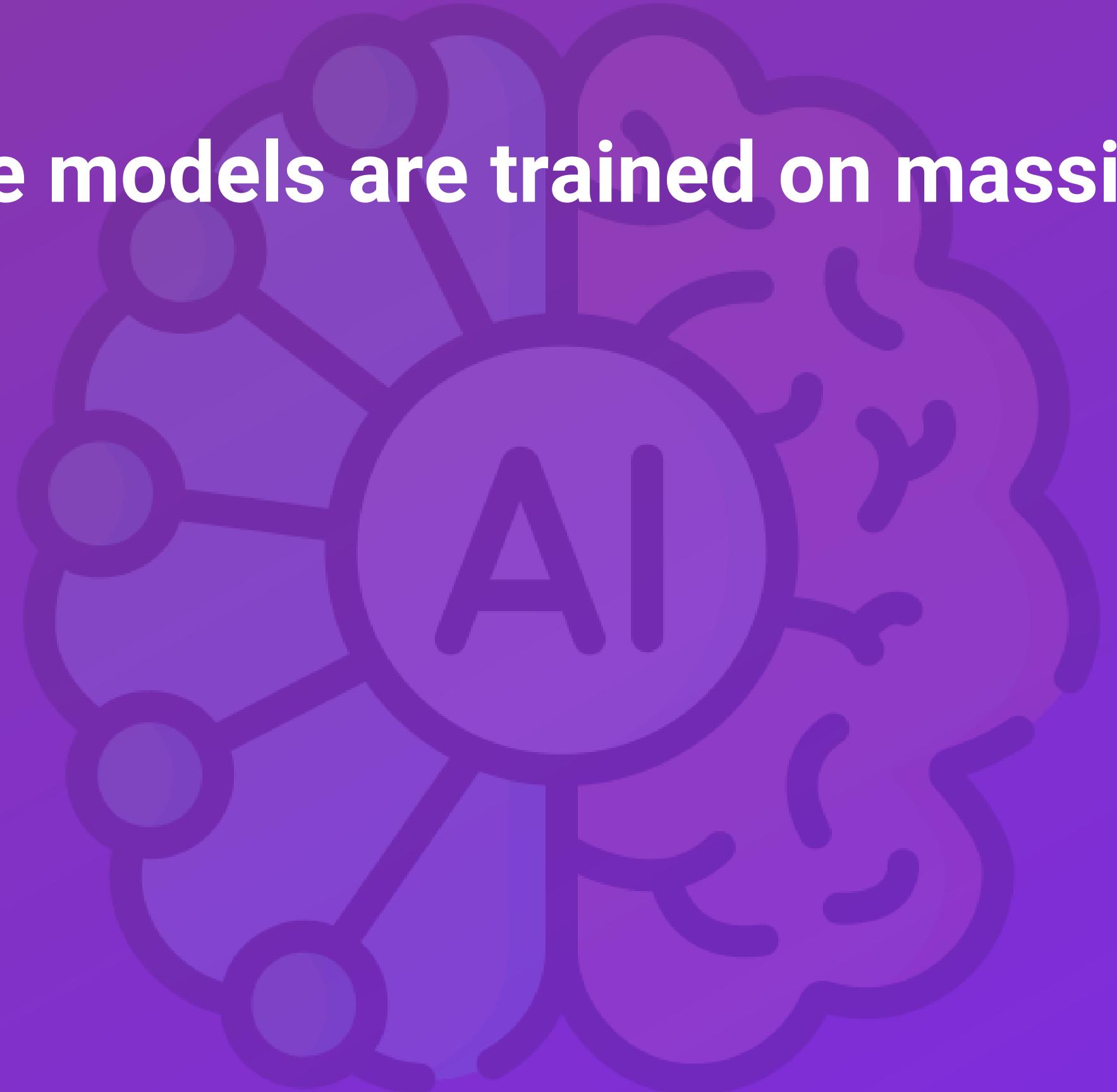
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# Why Are They Called Large Language Models?

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- **Large:** These models are trained on massive datasets



# Why Are They Called Large Language Models?

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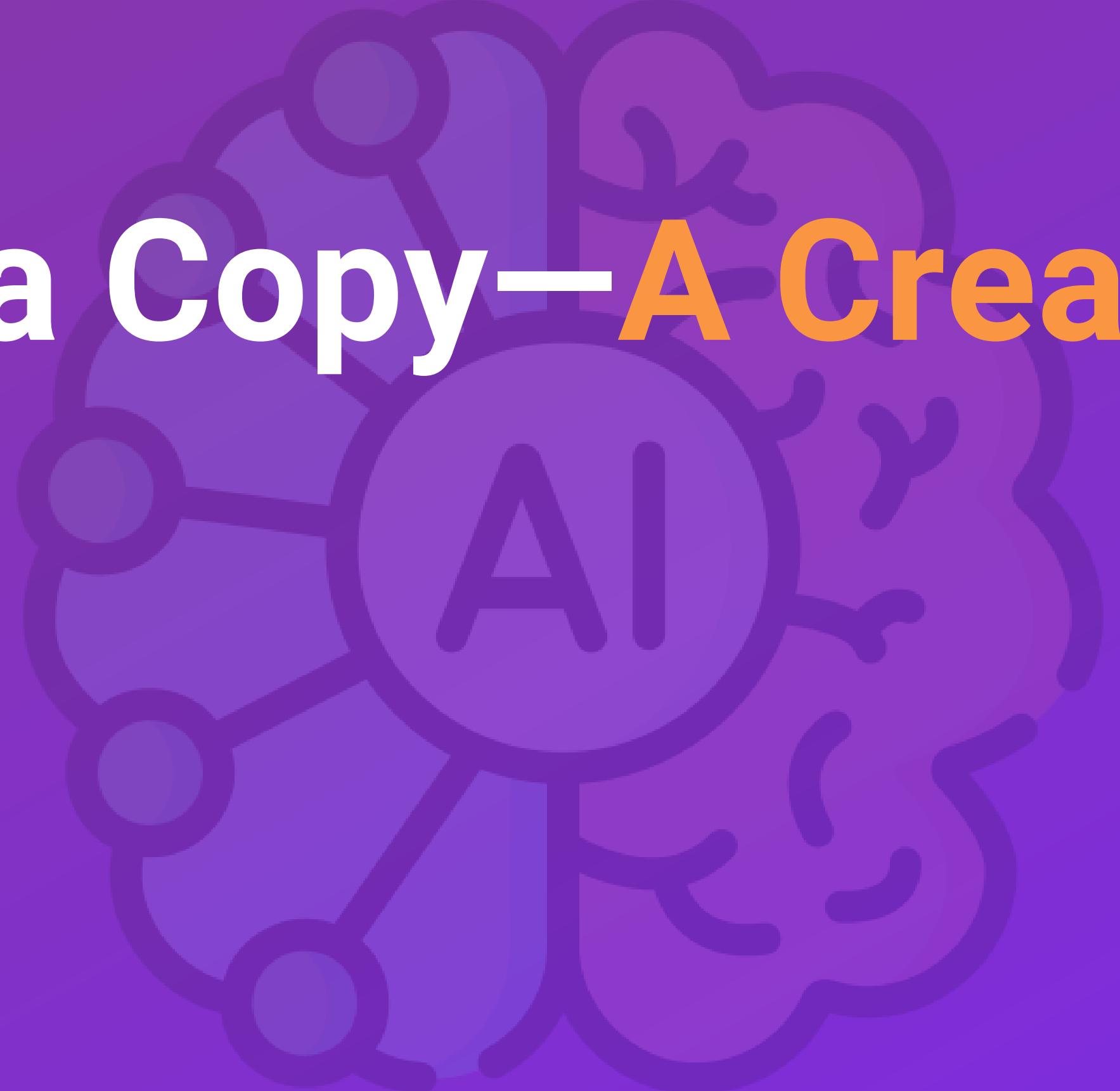
- **Large:** These models are trained on massive datasets
- **Language:** At their core, these models are built to work with natural language, understanding and generating text in ways that feel intuitive and human-like.

# The Core Mechanism: Tokens, Context, and Prediction

# GPT—Generative Pre-trained Transformer

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- **Generative:** It creates new, original content.
- **Pre-trained:** It has already learned from an enormous dataset.
- **Transformer:** A neural network architecture that enables context-based understanding.



# Not a Copy—**A** Creation!

# What Makes LLM APIs So Powerful?

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Ease of Access

# What Makes LLM APIs So Powerful?

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- 1 Ease of Access
- 2 Versatility

# What Makes LLM APIs So Powerful?

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- 1 Ease of Access
- 2 Versatility
- 3 Scalability