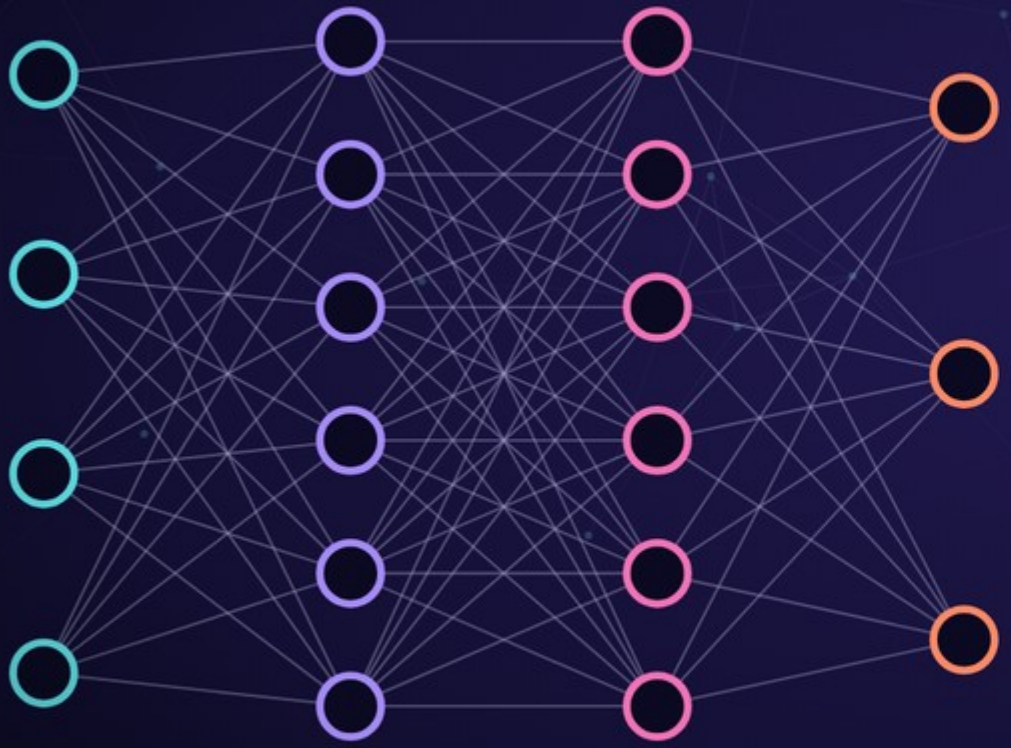
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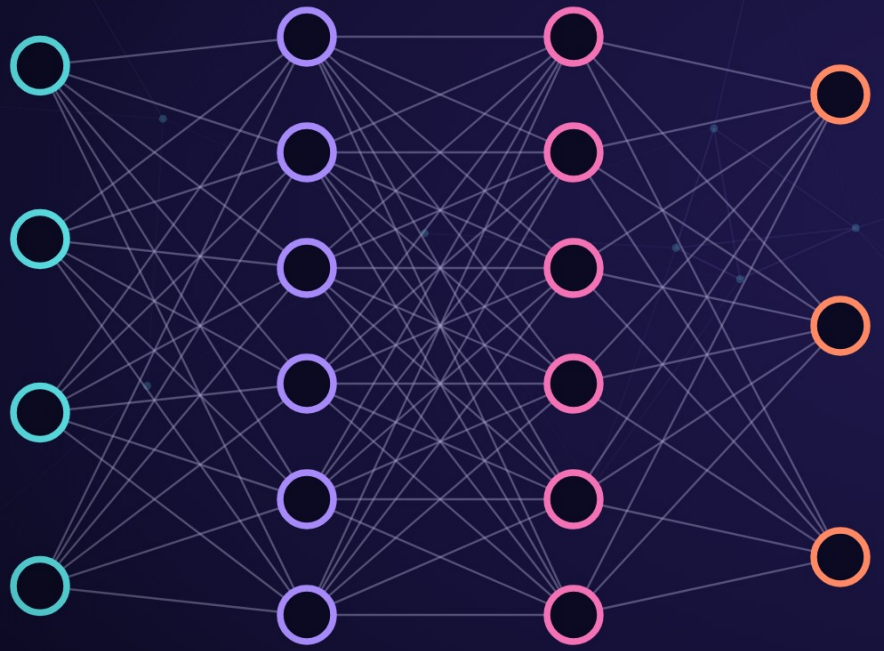
#1



AI

From Turing to ChatGPT

AI EXPLAINED · A FREE SERIES FOR STUDENTS AND DEVELOPERS



A MYWEBUNIVERSITY SERIES

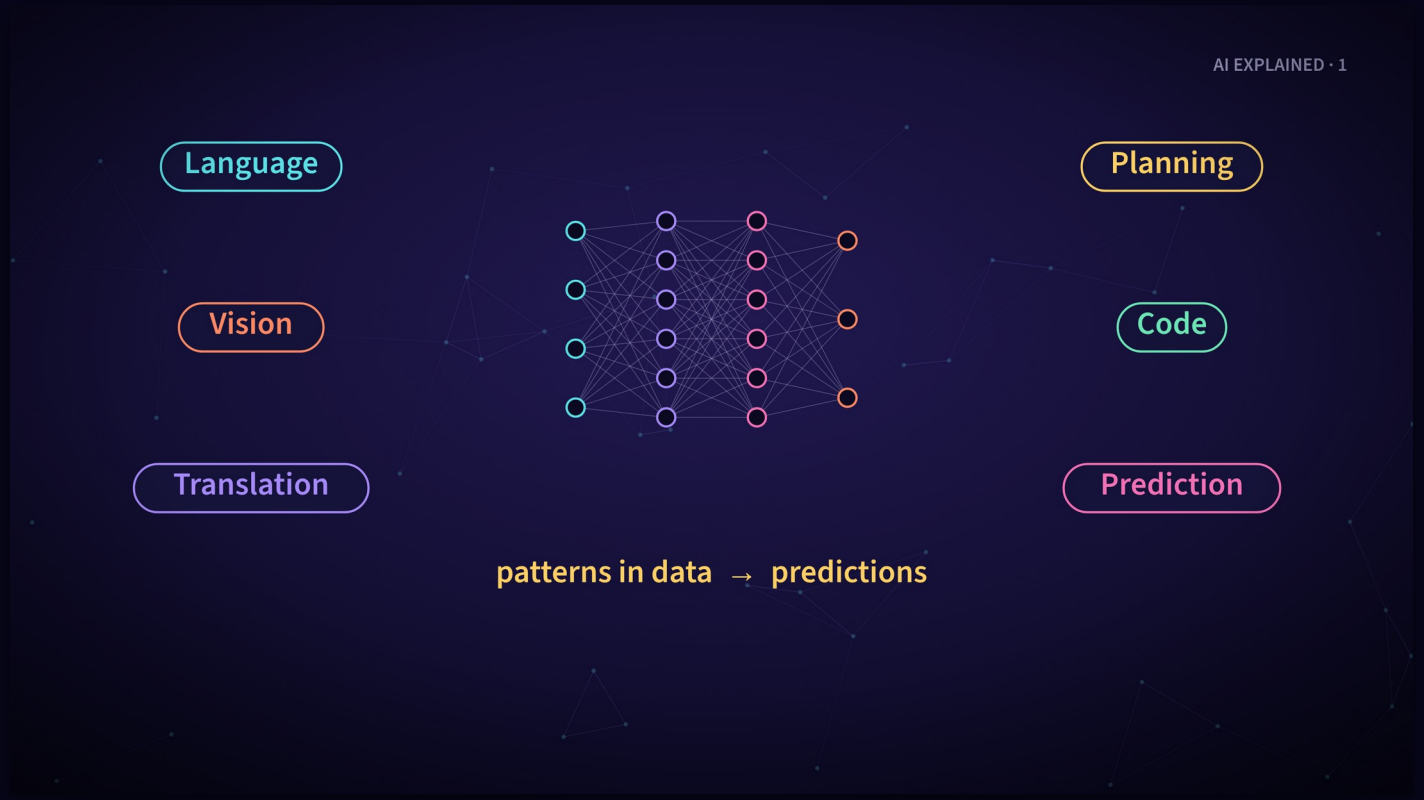
AI EXPLAINED

EPISODE 1

What Is AI?
From Turing to ChatGPT

1950 → 2026

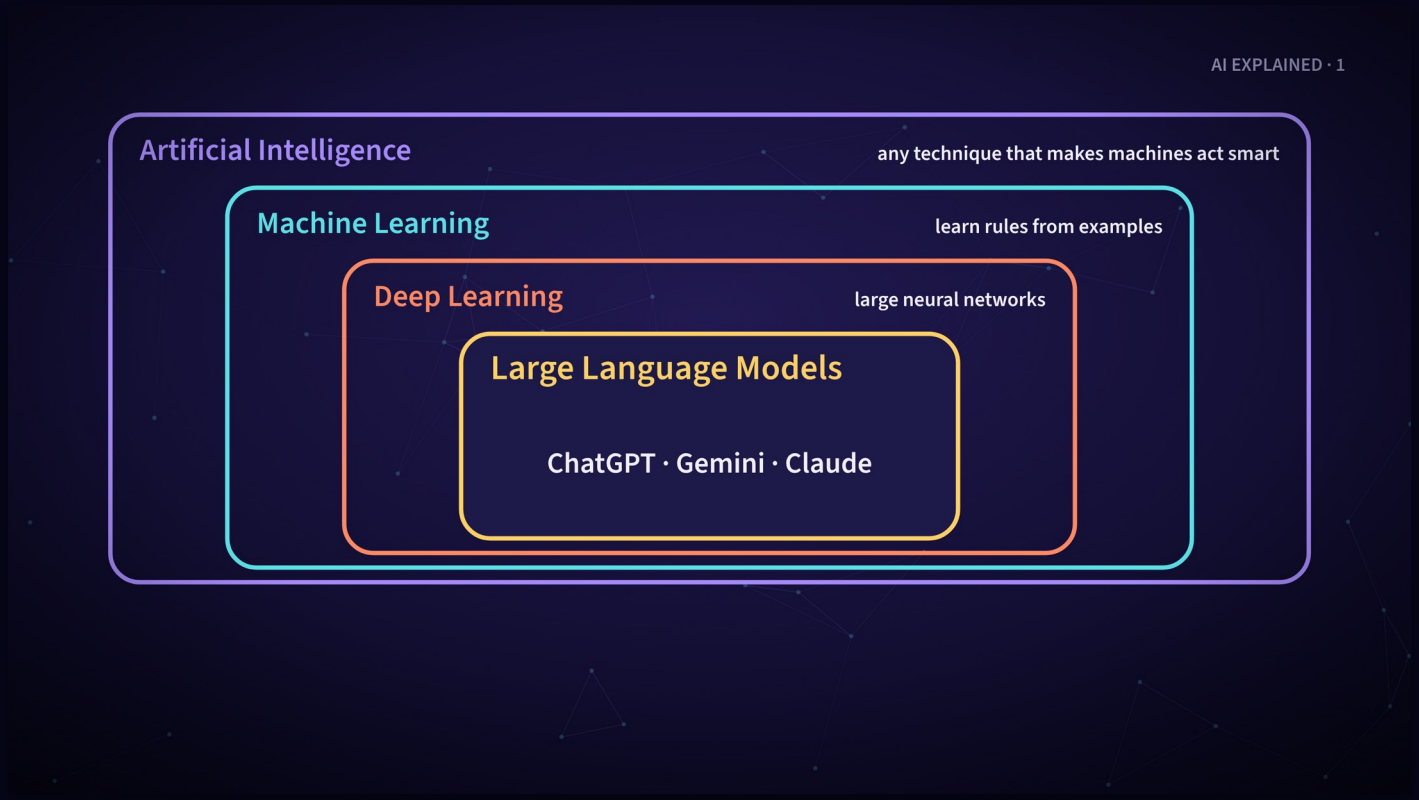
What Is AI?



- Machines doing tasks that need human-like intelligence
- Language, vision, translation, planning, coding
- Learns patterns from data → predictions

01

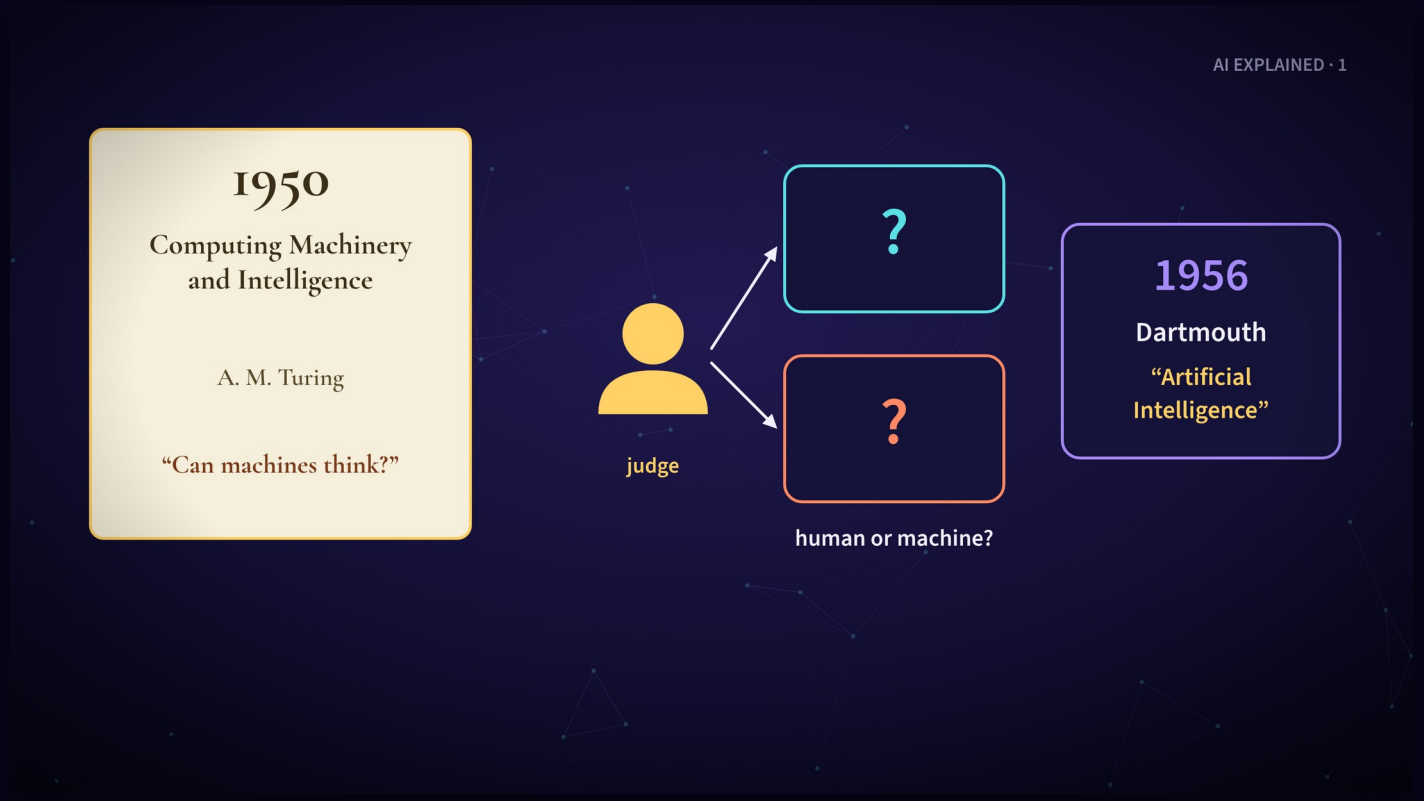
AI, Machine Learning, Deep Learning



- AI ⊃ Machine Learning ⊃ Deep Learning ⊃ LLMs
- ML: learn rules from examples
- LLMs power ChatGPT, Gemini, Claude

02

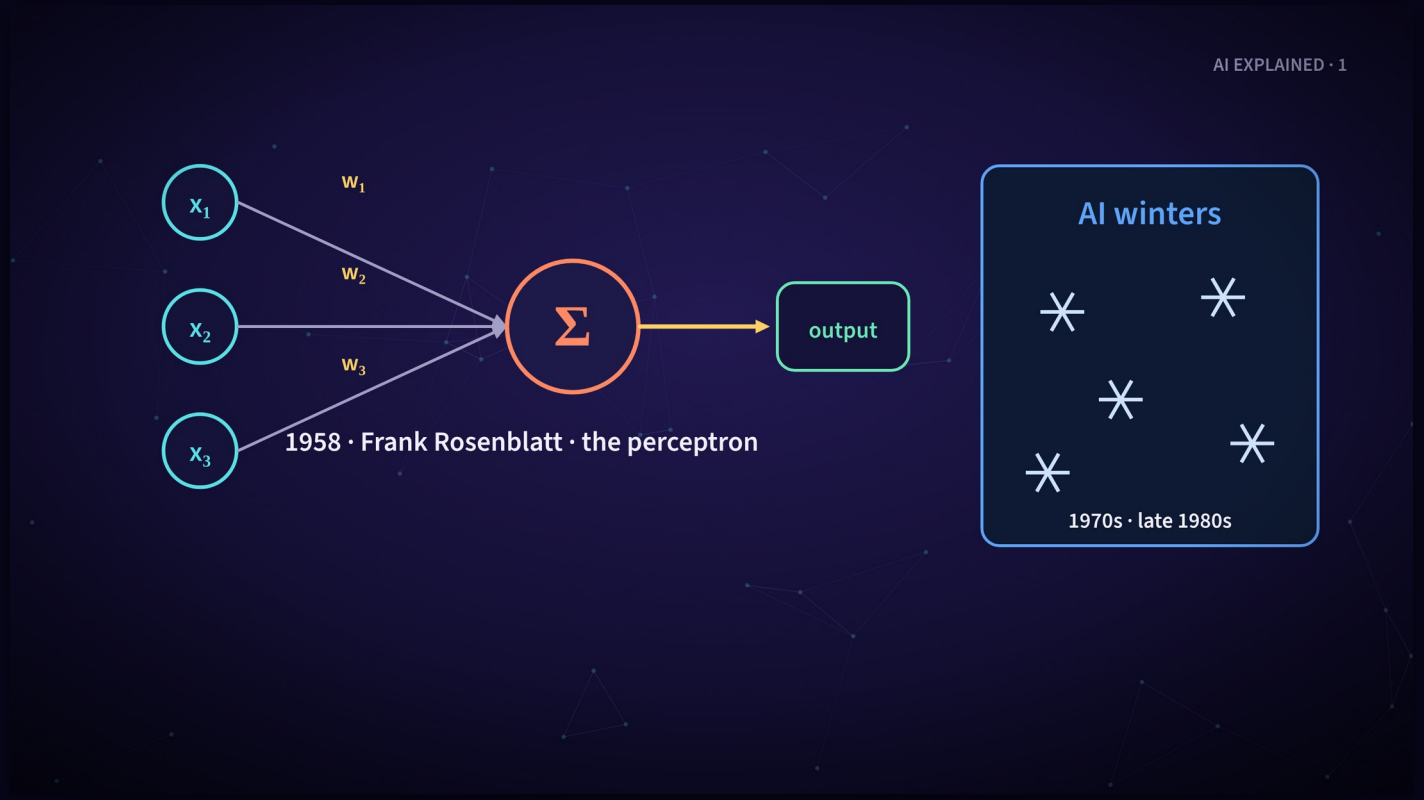
1950: Can Machines Think?



- 1950: Alan Turing, “Can machines think?”
- The imitation game (Turing test)
- 1956: Dartmouth workshop names the field

03

The First Artificial Neuron



- 1958: Rosenblatt's perceptron
- Learns by adjusting weights
- AI winters: slow computers, little data

04

Rules, Chess and Expert Systems



- Expert systems: hand-written if-then rules
- 1997: Deep Blue beats Kasparov
- Search, not learning

05

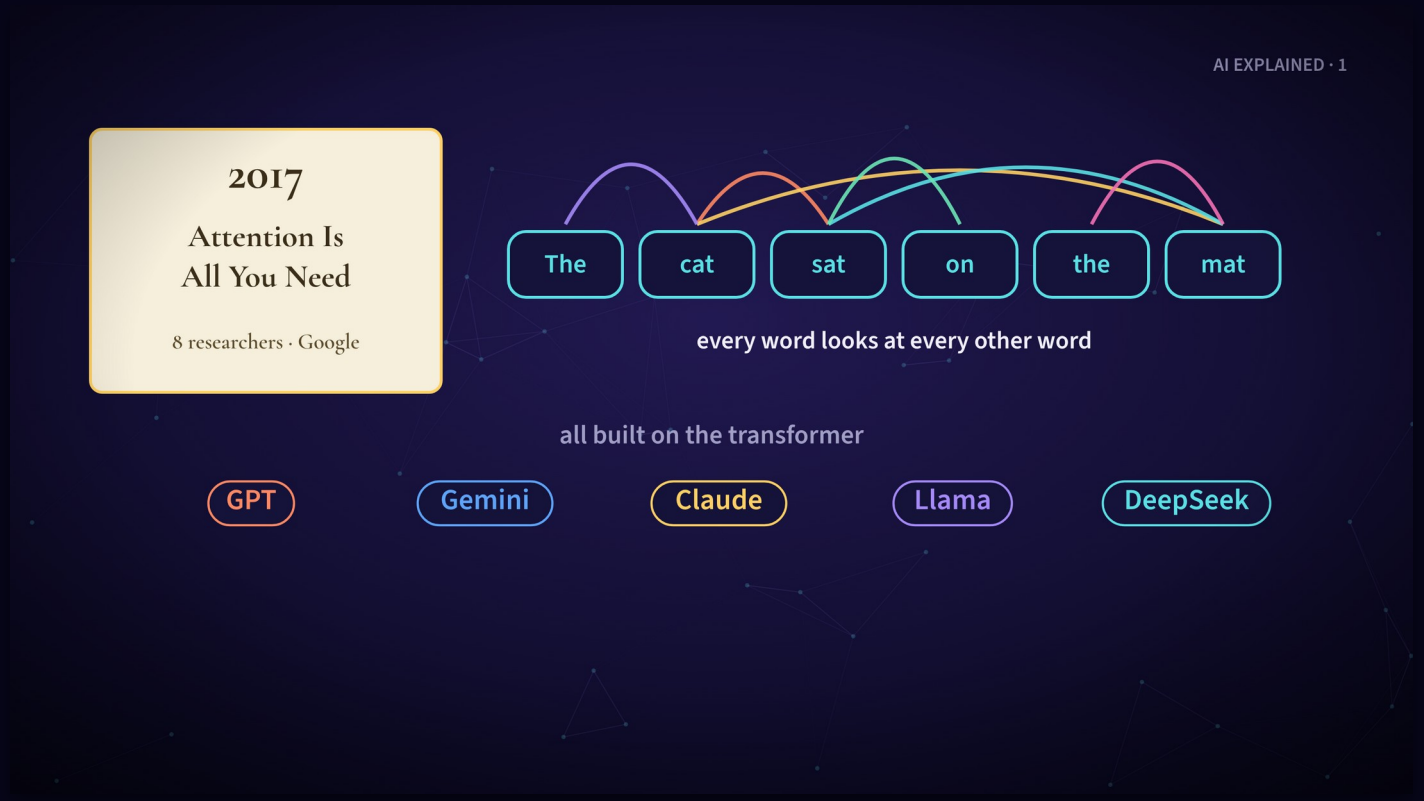
The Deep Learning Revolution



- Data + GPUs + better training
- 2012: AlexNet wins ImageNet
- 2016: AlphaGo beats Lee Sedol

06

2017: Attention Is All You Need



- 2017: “Attention Is All You Need” (Google)
- Reads all tokens at once, learns what matters
- Basis of GPT, Gemini, Claude, Llama, DeepSeek

07

From GPT to ChatGPT



- 2020: GPT-3, 175 billion parameters
- Nov 30, 2022: ChatGPT
- 2023: Claude (March), Gemini (December)

08

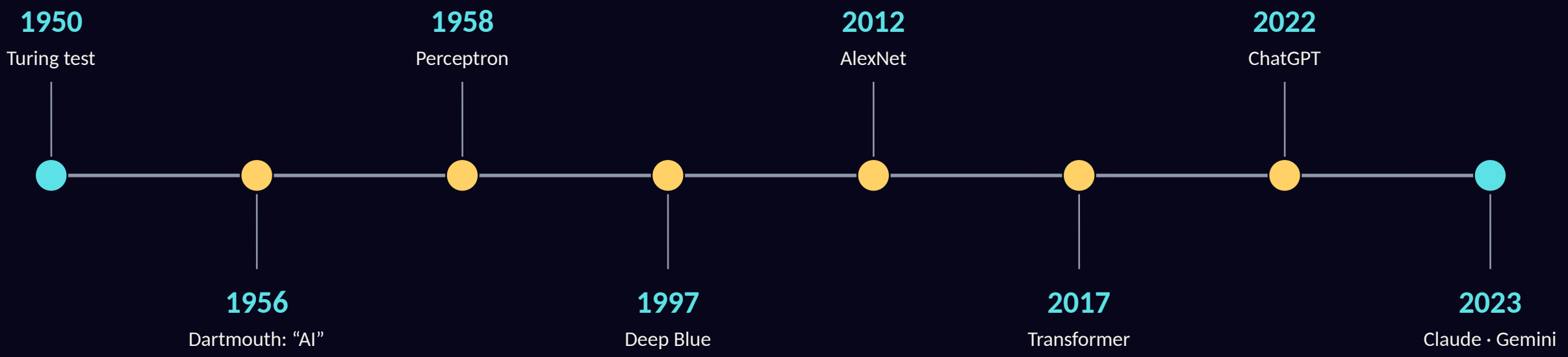
Where We Are Today



- 2024 Nobel Prizes: Hopfield & Hinton; AlphaFold
- Code, vision, voice, and AI agents
- Still makes mistakes — humans verify

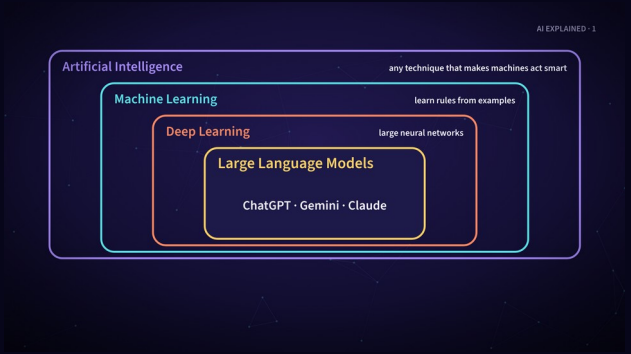
09

Timeline: 1950 to 2023



Sources and Further Reading

1. A. M. Turing, “Computing Machinery and Intelligence,” Mind, 1950
2. McCarthy et al., Dartmouth Summer Research Project proposal, 1955
3. Krizhevsky, Sutskever, Hinton, “ImageNet Classification with Deep CNNs” (AlexNet), 2012
4. Vaswani et al., “Attention Is All You Need,” 2017 — arxiv.org/abs/1706.03762
5. NobelPrize.org — Physics and Chemistry 2024





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