PHILOSOPHY

ORIGINAL SOUNDTRACK GEOFFREY HINTON

2.05.2023

the grand-grandson of George Boole and 2018 Turing award winner

the timestamps were generously created by @carson_tang

2:45 – why mainstream AI in the 1980s shunned neural networks

3:21 – Hinton believed in neural networks because the brain worked this way

4:31 – two different paths to intelligence

6:15 – lack of data and compute that impeded deep learning's progress

8:57 – the start of deep learning in 2006

10:04 – two big deep learning developments: speech recognition at Google and object recognition at University of Toronto

10:49 – how object recognition works in layman's terms

15:47 – breakthroughs in object recognition influencing the AI community

18:28 – why Hinton likes the company Cohere

19:20 – biological brains vs digital brains

21:39 – ChatGPT as an "idiot savant" with a lack of understanding of truth

24:56 – how society should handle this new AI

30:52 – self-healing minefield proposed by the government

31:43 – how to create an effective autonomous solder and the alignment problem

33:12 – are large language models "just autocomplete"? Are humans "just autocomplete"?

33:52 – translating "The trophy would not fit in the suitcase because it was too big" into French. English-French translation and the insights it provides into LLMs' understanding of the world

35:50 – computers coming up with new ideas for itself

37:00 – AI displacing jobs

38:15 – how big of a revolution is AI?

40:37 – is AI sentient?