

AI Life Skills for Social Scientists I

Levente Littvay

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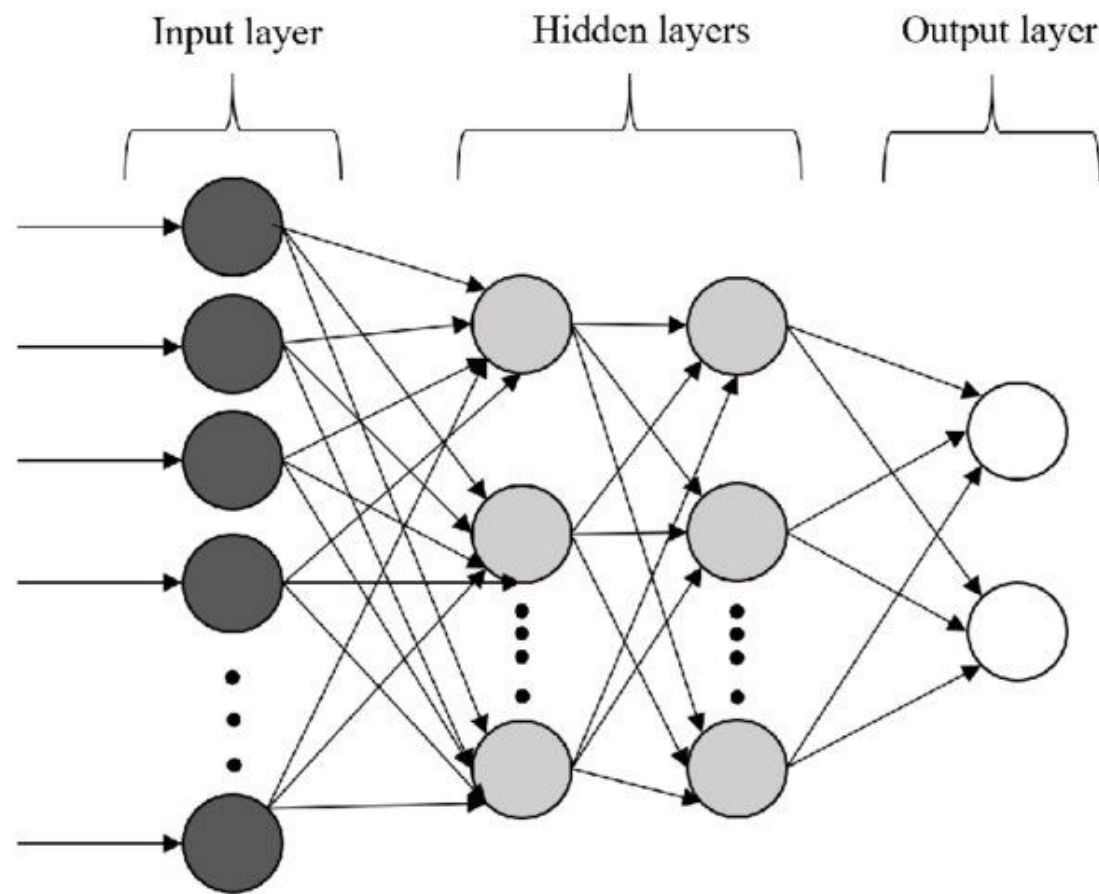
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Neural Networks by Geoffrey Hinton (Godfather of AI)

- Geoffrey Hinton
 - Godfather of AI
 - Former Google (Alphabet)
 - Industry Alarmist
 - Now, also Nobel Prize winner
- The basics of how it works
 - Don't think that I understand it
 - Despite multiple workshops
- Want more?
 - 3Blue1Brown YouTube course: Neural networks (quick intro)
 - Andrej Karpathy YT course: Neural Networks: Zero to Hero



Selmoule, Liu & Lee 2022

Artificial Intelligence

Generative AI exists because of the transformer

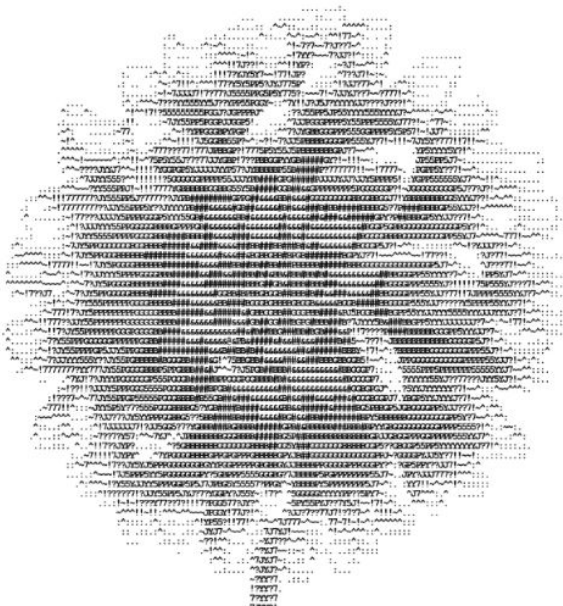
This is how it works

By Visual Storytelling Team and Madhumita Murgia in London SEPTEMBER 12 2023

OPINION
GUEST ESSAY

Noam Chomsky: The False Promise of ChatGPT

March 8, 2023

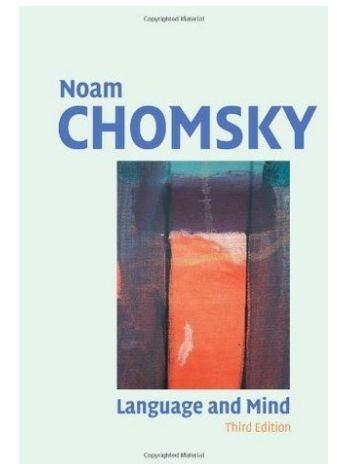
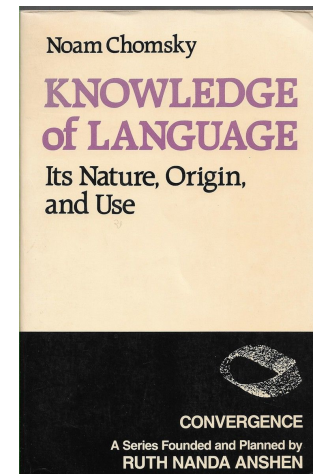


By Ruru Kuo

Share full article

By Noam Chomsky, Ian Roberts and Jeffrey Watumull

Dr. Chomsky and Dr. Roberts are professors of linguistics. Dr. Watumull is a director of artificial intelligence at a science and technology company.



Noam Chomsky et al: The False Promise of ChatGPT

- As per linguistics and the philosophy of knowledge, LLMs differ profoundly from how humans reason and use language
- The human mind is a surprisingly efficient and even elegant system that operates with small amounts of information;
- It seeks not to infer brute correlations among data points but to create explanations.
- LLMs' deepest flaw is the absence of the most critical capacity of any intelligence [and morality]
- LLMs are constitutionally unable to balance creativity with constraint.
- Given the amorality, faux science and linguistic incompetence of these systems, we can only laugh or cry at their popularity.



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“While we’ve always understood the breakthrough nature of our transformer work, several years later, we’re energised by its enduring potential across new fields, from healthcare to robotics and security, enhancing human creativity, and more,” says Slav Petrov, a senior researcher at Google, who works on building AI models, including LLMs.

LLMs’ touted benefits — the ability to increase productivity by writing and analysing text — are also why it poses a threat to humans. According to Goldman Sachs, it could expose the equivalent of 300mn full-time workers across big economies to automation, leading to widespread unemployment.

As the technology is rapidly woven into our lives, understanding how LLMs generate text means understanding why these models are such versatile cognitive engines — and what else they can help create.

Techno-optimism vs Doom and Gloom (let's discuss)

- Ethics of AI: incredible energy use
 - Helps or hurts inequality
- Global Security Issues: Taiwan makes 90+% of AI chips
- Consider what research opportunities this brings
 - Redistribution attitudes to losers of AI (...like climate change)
 - New case for universal basic income?

So, what are these tools & what can they do for us

So, what are these tools & what can they do for us

- ChatGPT (until August, I was not paying for this one)
- What all can it do? (10 hour rule)



Levente Littvay

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🎉👏🥳 Look at my HUN-REN 🇭🇺 Centre for Social Sciences colleague, [Zsófi Papp](#), publishing in the top 📈 European 🇪🇺 political science journal! Woohooo 🎉🥳. Big congrats!! 🎉🥳🎉🥳 It's amazing 🥳 to be part of a team that is leading in public opinion and political behavior research! 🧪🗨️

Check her open access study 📖 on how different aspects of political systems, including access to power, the policy-making process, and government performance, influence citizens' satisfaction with democracy. 📊 The results show that citizens are more satisfied with democracy in consensus systems, value proportionality 🗳️ and party system fragmentation, and consider economic performance 💰📄 and public integrity 🔍👤 as important features of a well-functioning democracy. 👍👏

- Marketing ([papers](#) / [courses](#))

Claude AI (this I pay for since almost first use)

- Constitutional AI
- Includes rules
 - United Nations' Declaration of Human Rights
 - Apple's terms of service
 - Theoretically more ethical
 - But yes, I also feel like I am in a surreal movie
- Better writer (now also pretty good coder)
- Allows document upload
 - also in free
 - limits by the hour

Happy late night, Levi

What can I help you with?



Start Chat 

Previous chats from 2 days ago

Highly Contrasting Color Selection

4 days ago

Maximizing Facebook Post Engagement with Emojis

Thank you for your attention!

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