



**Critical AI
Literacy
An
Evolving
Project**

Lauren M.E. Goodlad
Critical AI @ Rutgers

Prometheus Carrying Fire,
Jan Cossiers c. 1638

TECHNOLOGY

The End of High-School English

I've been teaching English for 12 years, and I'm astounded by what ChatGPT can produce.

By Daniel Herman

TECHNOLOGY

The End of High-School English

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Really, *Atlantic Monthly*?



Google CEO Sundar Pichai made \$226 million last year...

[Visit](#)

Bill Gates says A.I. chatbots will teach kids to read within 18 months: You'll be 'stunned by how it helps'

Published Sat, Apr 22 2023 8:30 AM EDT

Tom Huddleston Jr.

SHAI



TECH • ARTIFICIAL INTELLIGENCE

Exclusive: OpenAI Lobbied the E.U. to Water Down AI Regulation

AI FEVER

Tech Giants Are Barreling Headfirst Into an AI Arms Race

Satya Nadella wants to make Google dance in battle for AI chat-powered web search

Plus: Publisher using AI tools generated false health advice for men; how ChatGPT widens economic inequalities

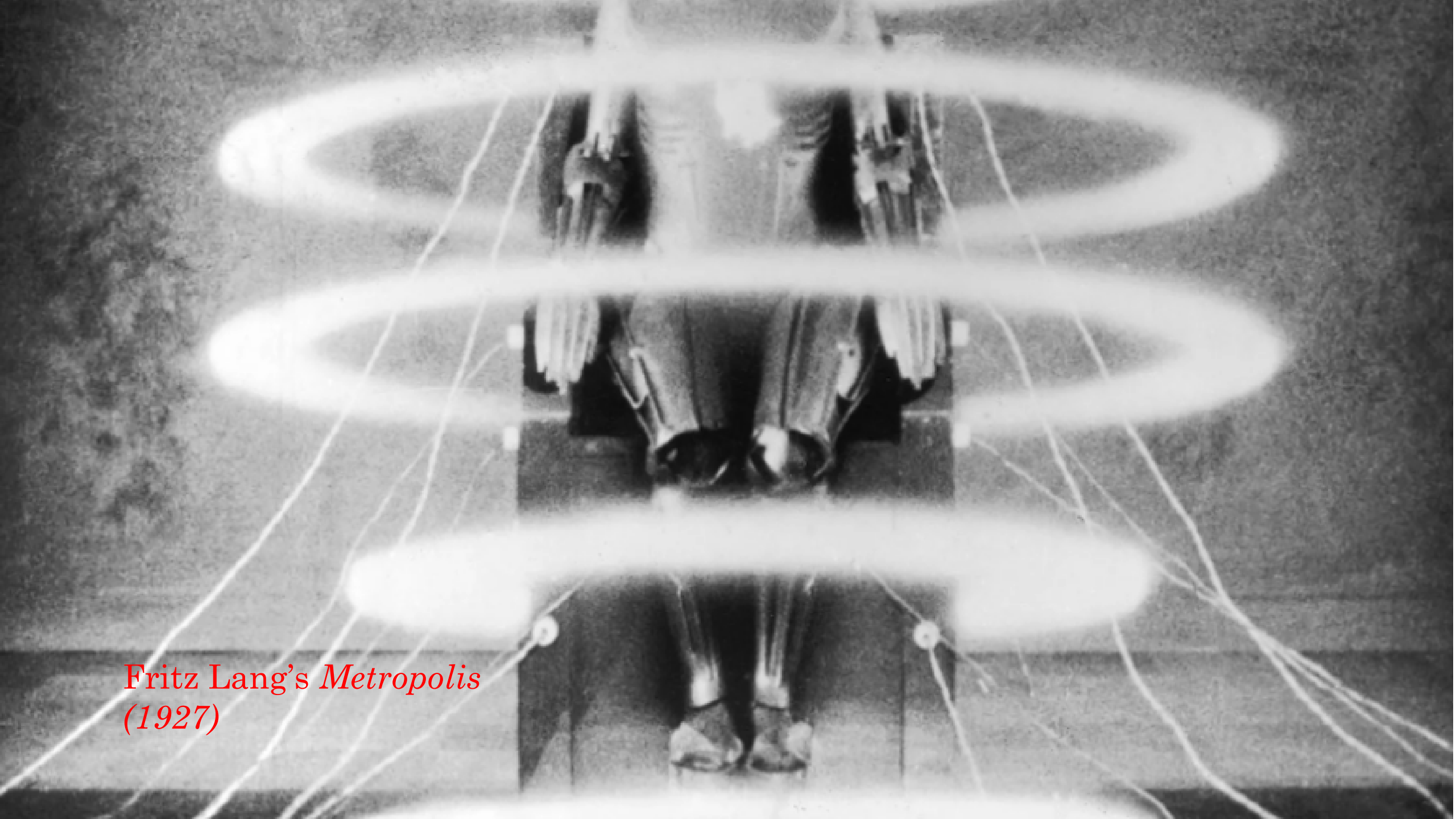
In the fullness of time, we and our students will find lots of good reasons for using some chatbots in particular ways for performing the tasks at which they excel.



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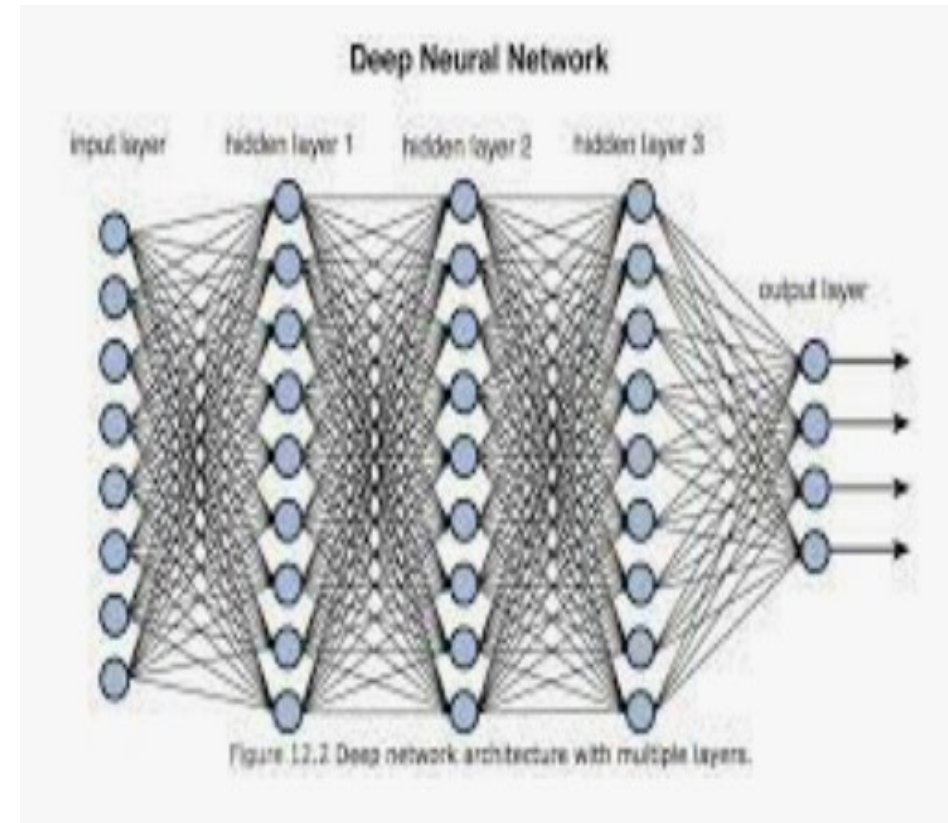
College writing—intended to teach best research practices, communicative articulacy, and critical thinking-- is not one of those tasks.





Fritz Lang's Metropolis
(1927)

probabilistic mimicry



On the Dangers of Stochastic Parrots: Can Language Models Be Too Big? 🐦

Authors: [Emily M. Bender](#), [Timnit Gebru](#), [Angelina McMillan-Major](#), [Shmargaret Shmitchell](#) [Authors Info & Claims](#)

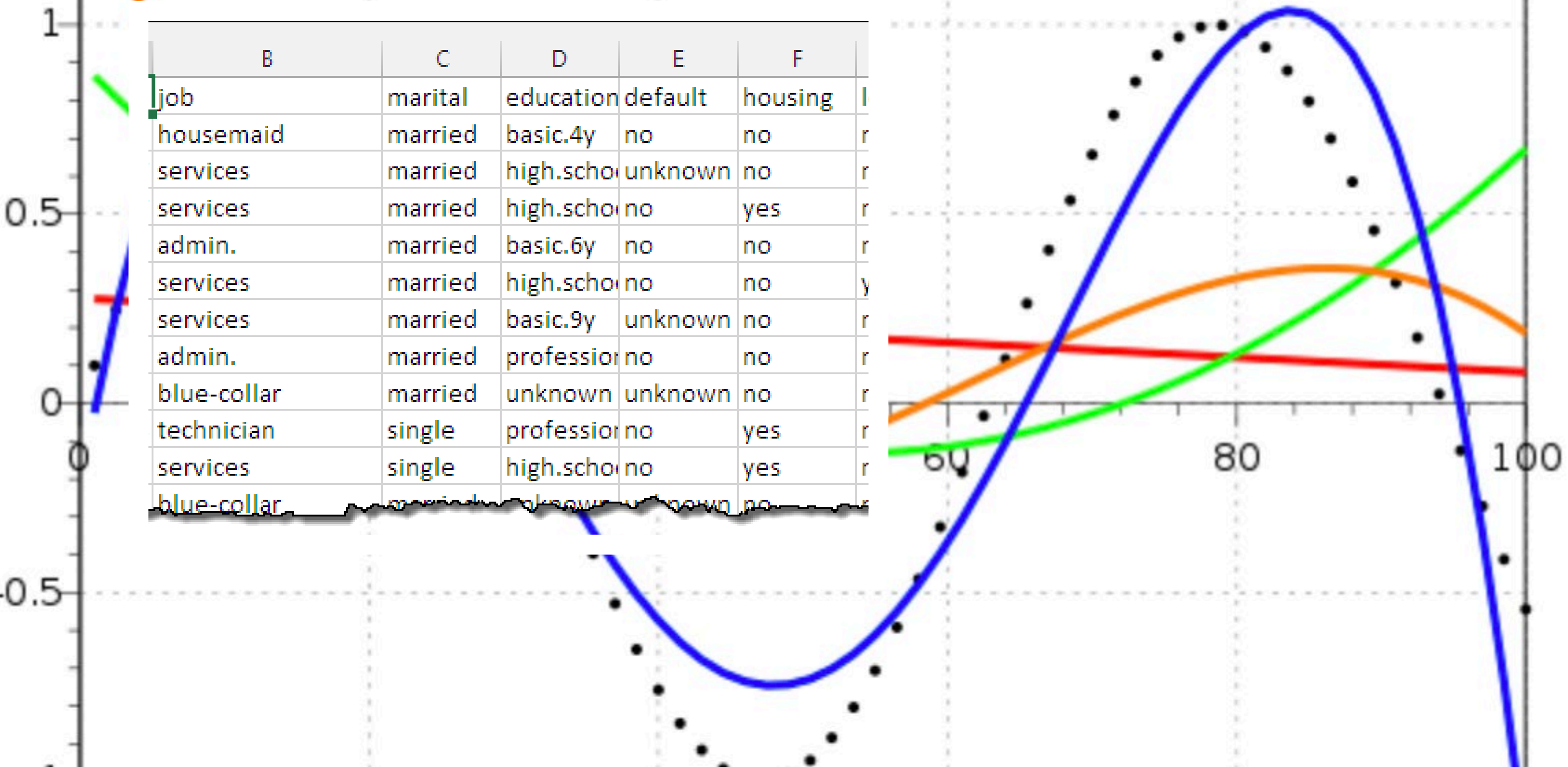
So when you hear
about today's "AI"
you should not be
thinking about this...



Or even this...



But, rather, a vastly scaled up multi-dimensional version of this...



	B	C	D	E	F	
job	marital	education	default	housing		
housemaid	married	basic.4y	no	no		r
services	married	high.scho	unknown	no		r
services	married	high.scho	no	yes		r
admin.	married	basic.6y	no	no		r
services	married	high.scho	no	no		y
services	married	basic.9y	unknown	no		r
admin.	married	profession	no	no		r
blue-collar	married	unknown	unknown	no		r
technician	single	profession	no	yes		r
services	single	high.scho	no	yes		r
blue-collar	married	unknown	unknown	no		r

Google cautions against 'hallucinating' chatbots, report says

Reuters

February 10, 2023 7:17 PM EST · Updated 6 months ago



GIRL: Hello. My name is _____
NAME (FEMALE)

BOY: Hi. My name is _____
CELEBRITY (MALE). I came here with
my mother and father and my little _____
NOUN

GIRL: I am here with my best girl _____
NOUN. We are
staying at the _____ Hilton Hotel.
NAME (MALE)

BOY: I hear they have a great _____
NOUN there. How is
the food?

GIRL: _____
ADJECTIVE. But the room only costs _____
NUMBER
dollars a day.




BOY: I rented a/an _____
NOUN for this afternoon. Maybe
you and I could go _____
VERB ENDING IN "ING"




GIRL: I'd love to, but I promised _____
CELEBRITY (FEMALE) I'd go
_____ with her.
VERB ENDING IN "ING"

BOY: Well, tonight there is a/an _____
ADJECTIVE Dance at the
Hotel _____ Room.
VERB ENDING IN "ING"




GIRL: I'd love to go to that. Is it formal?









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What screams "poorly educated"?

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 **10.4k**   **r/AmItheAsshole** · Posted by u/NoAlcWedding12345 13 hours ago      [Join](#)

AITA for being pissed there was no Alcohol at a wedding

One of my (M35) best friends (M34) got married last week. He drinks alcohol and our friend group will meet up at breweries a few times a month to hang out. His fiancée, now wife, does not drink. It's never been a part of her life.

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Robots Enact Malignant Stereotypes

Authors:  [Andrew Hundt](#),  [William Agnew](#),

 [Vicky Zeng](#),  [Severin Kacianka](#), [+ 1](#)

[Authors Info & Claims](#)

Easily Accessible Text-to-Image Generation Amplifies Demographic Stereotypes at Large Scale

[Federico Bianchi](#), [Pratyusha Kalluri](#), [Esin Durmus](#), [Faisal Ladhak](#), [Myra Cheng](#), [Debora Nozza](#), [Tatsunori Hashimoto](#), [Dan Jurafsky](#), [James Zou](#), [Aylin Caliskan](#)

AI Is Steeped in Big Tech's 'Digital Colonialism'

Artificial intelligence continues to be fed racist and sexist training materials and then distributed around the world.

Multimodal datasets: misogyny, pornography, and malignant stereotypes

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TruthfulQA: Measuring How Models Mimic Human Falsehoods

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Annotation reveals too much about the systems being developed, and the huge number of workers required makes leaks difficult to prevent. Annotators are warned repeatedly not to tell anyone about their jobs, not even their friends and co-workers, but corporate aliases, project code names, and, crucially, the extreme division of labor ensure they don't have enough information about them to talk even if they wanted to. (Most workers requested pseudonyms for fear of being booted from the platforms.) Consequently, there are no granular estimates of the number of people who work in annotation, but it is a lot, and it is growing. A recent Google Research paper gave an order-of-magnitude figure of "millions" with the potential to become "billions."

TECHNOLOGY

AMERICA ALREADY HAS AN AI UNDERCLASS

Search engines, ChatGPT, and other AI tools wouldn't function without an army of contractors. Now those workers say they're underpaid and mistreated.

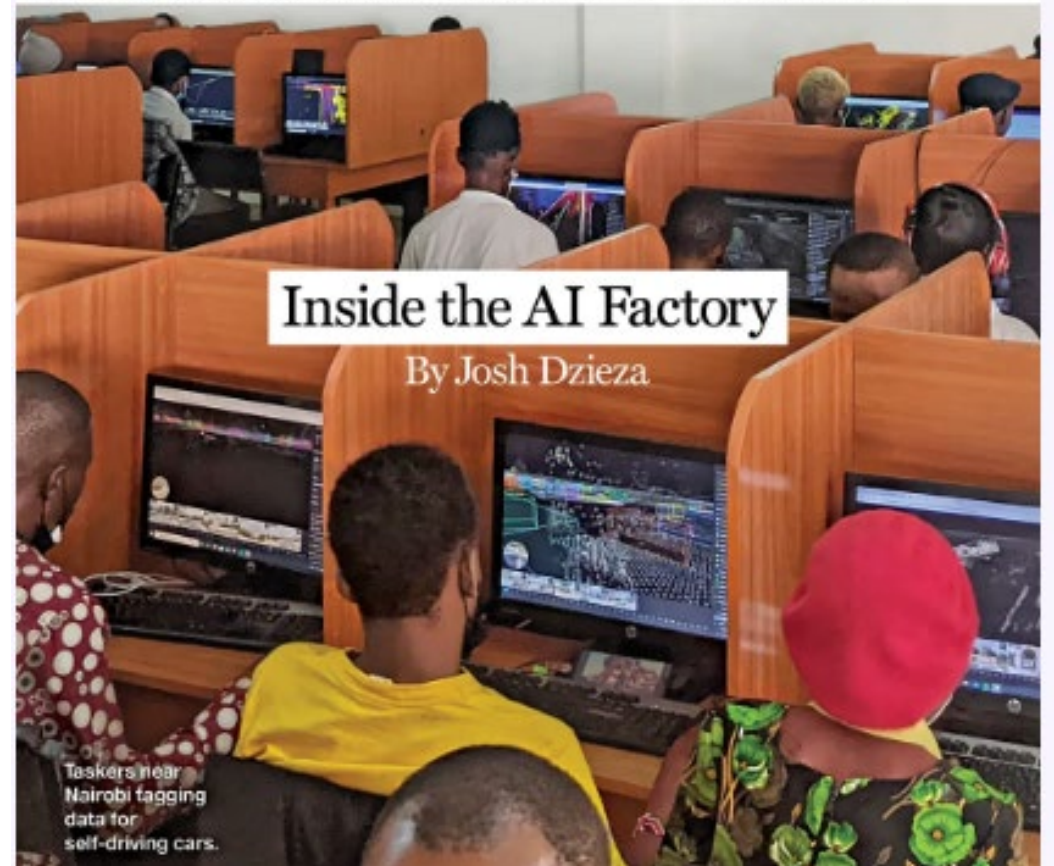
ARTIFICIAL INTELLIGENCE

AI Is a Lot of Work

As the technology becomes ubiquitous, a vast tasker underclass is emerging – and not going anywhere.

NEW YORK

How many humans does it take to make tech seem human? Millions.



Inside the AI Factory

By Josh Dzieza

Taskers near
Nairobi tagging
data for
self-driving cars.

[HOME](#) > [TECH](#)

Kenyan data labelers were paid \$2 an hour to label child sexual abuse, bestiality, and other horrific content for ChatGPT creator OpenAI, report says

'Thirsty' AI: Training ChatGPT Required Enough Water to Fill a Nuclear Reactor's Cooling Tower, Study Finds

An average user's conversational exchange with ChatGPT amounts to dumping a large bottle of fresh water out on the ground, new research says.

ENERGY

The Environmental Impact of ChatGPT: A Call for Sustainable Practices In AI Development

BY SOPHIE

GLOBAL COMMONS

APR 28TH 2023

4 MINS

POWER PLAYERS

Bill Gates says A.I. chatbots will teach kids to read within 18 months: You'll be 'stunned by how it helps'

Published Sat, Apr 22 2023•8:30 AM EDT

Tom Huddleston Jr



Newsletter: Hello World

Back to Surveillance School

September 17, 2022 08:00 ET



Opinion **Inside Business**

Risk of 'industrial capture' looms over AI revolution

A handful of individuals and corporations now control much of the resources and knowledge in the sector

MADHUMITA MURGIA

+ Add to myFT

Technology And Analytics

AI Prompt Engineering Isn't the Future

by Oguz A. Acar

Setting time on fire and the temptation of The Button

We used to consider writing an indication of time and effort spent on a task. That isn't true anymore.



ETHAN MOLLICK

JUN 3, 2023

Chatbots could one day replace search engines. Here's why that's a terrible idea.

Language models are mindless mimics that do not understand what they are saying—so why do we pretend they're experts?

By Will Douglas Heaven

March 29, 2022

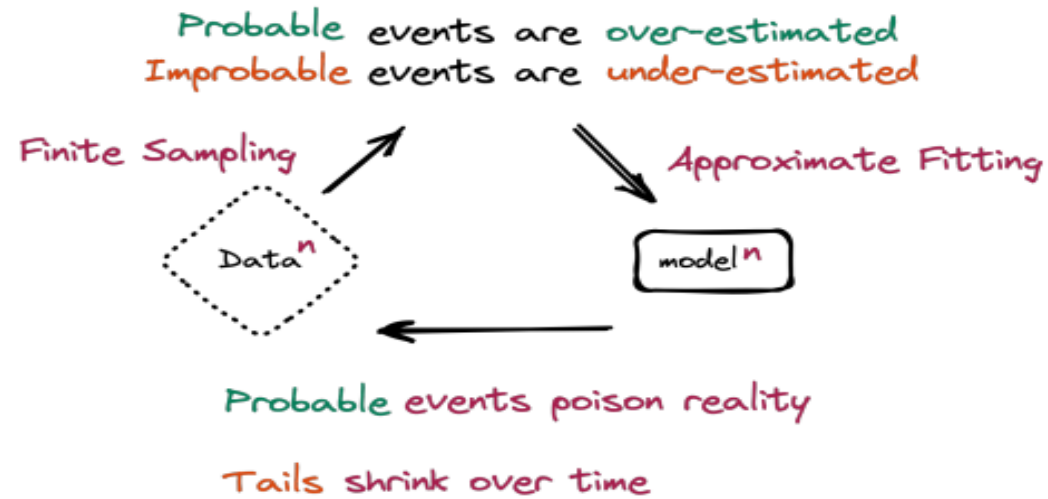
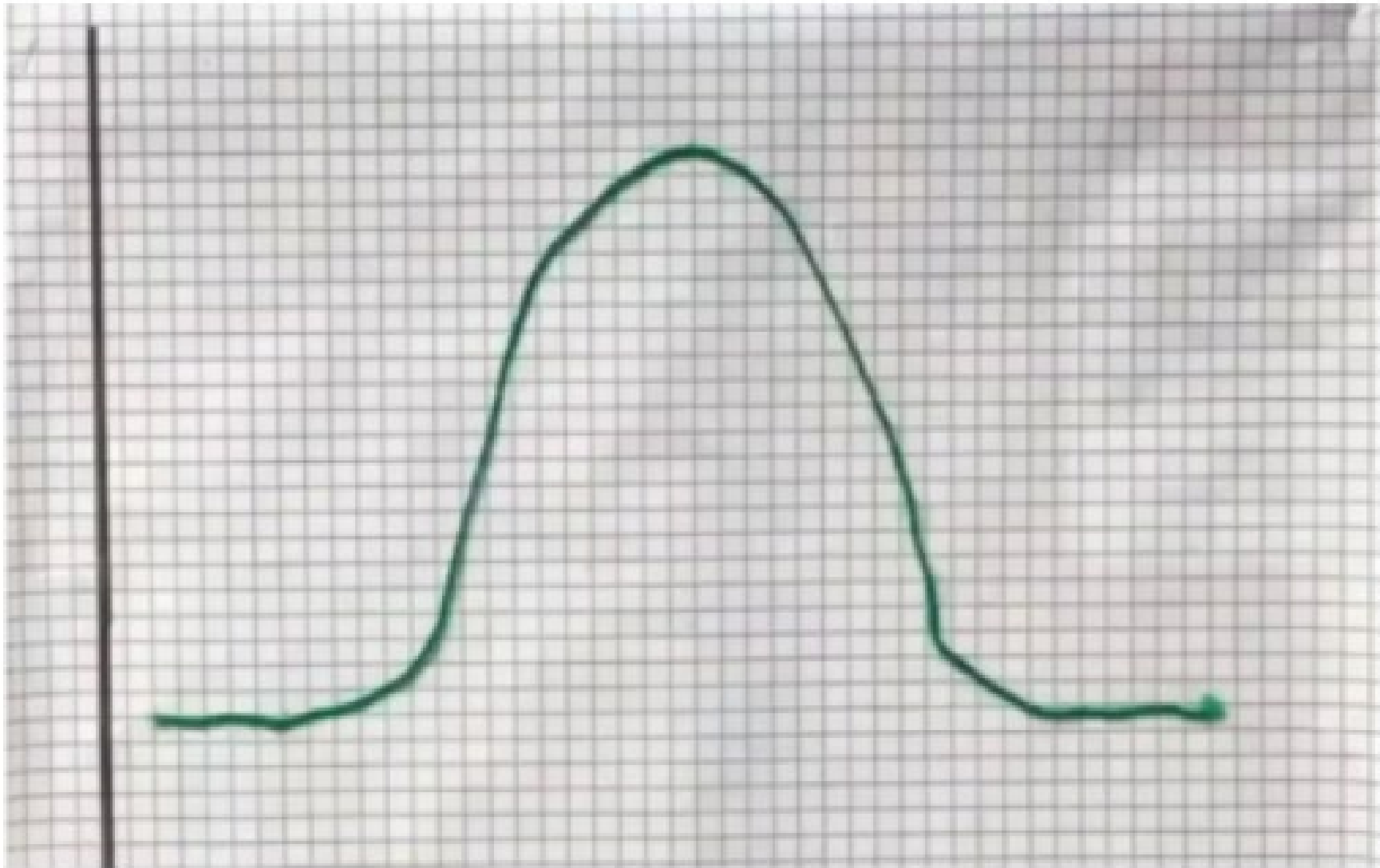


Figure 1: *Model Collapse* refers to a degenerative learning process where models start forgetting improbable events over time, as the model becomes poisoned with its own projection of reality.

Anderson said, "Just as we've strewn the oceans with plastic trash and filled the atmosphere with carbon dioxide, **so we're about to fill the Internet with blah. This will make it harder to train newer models by scraping the web, giving an advantage to firms that already did that,** or that control access to human interfaces at scale. Indeed, we already see AI startups hammering the Internet Archive for training data."

THE CURSE OF RECURSION:
 TRAINING ON GENERATED DATA MAKES MODELS FORGET

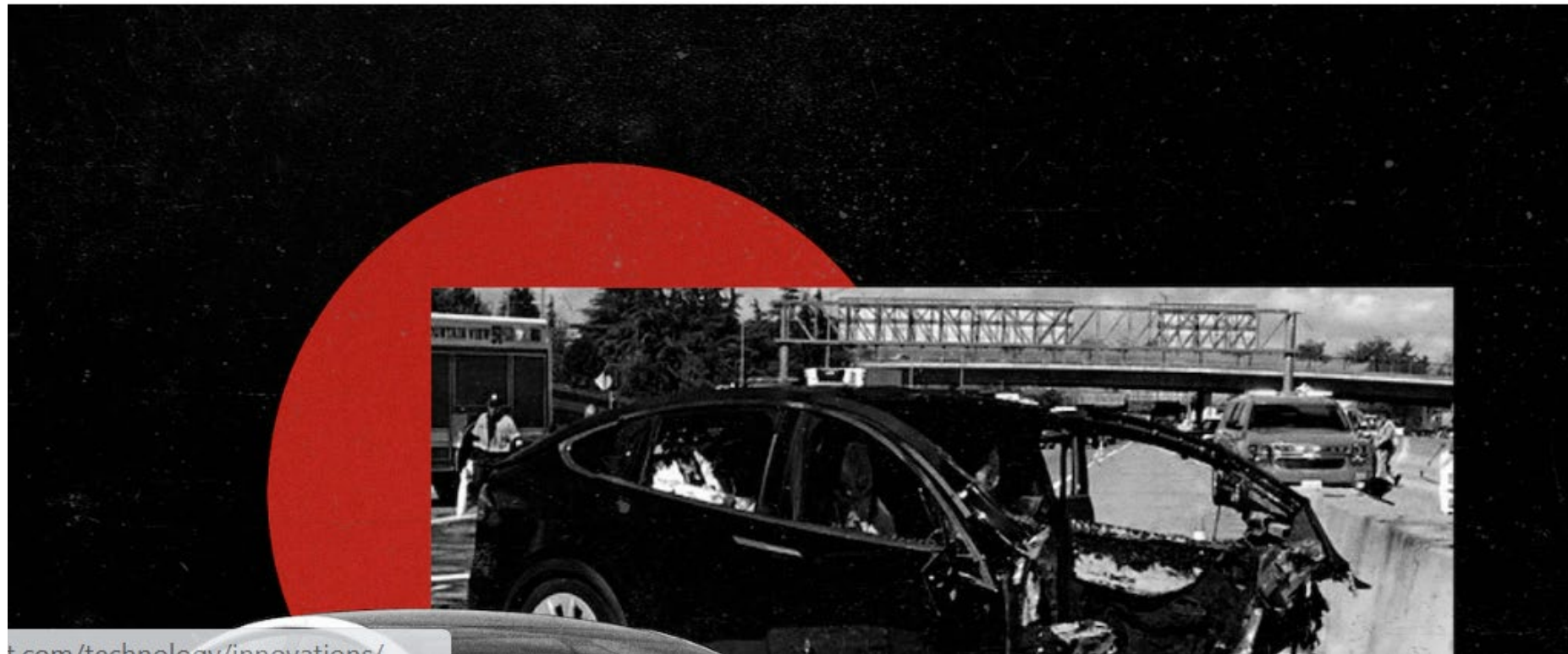


17 fatalities, 736 crashes: The shocking toll of Tesla's Autopilot

Tesla's driver-assistance system, known as Autopilot, has been involved in far more crashes than previously reported

By [Faiz Siddiqui](#) and [Jeremy B. Merrill](#)

June 10, 2023 at 7:00 a.m. EDT



[tesla.com/technology/innovations/](#)

Don't panic. Educate yourself...

Critical AI literacy begins with recognizing that “AI” isn't just a technology; it's a political economy that concentrates power

Don't panic. Educate yourself...

But this doesn't mean that we can't be chill. 😊

Probing experiments (researchers not consumers)

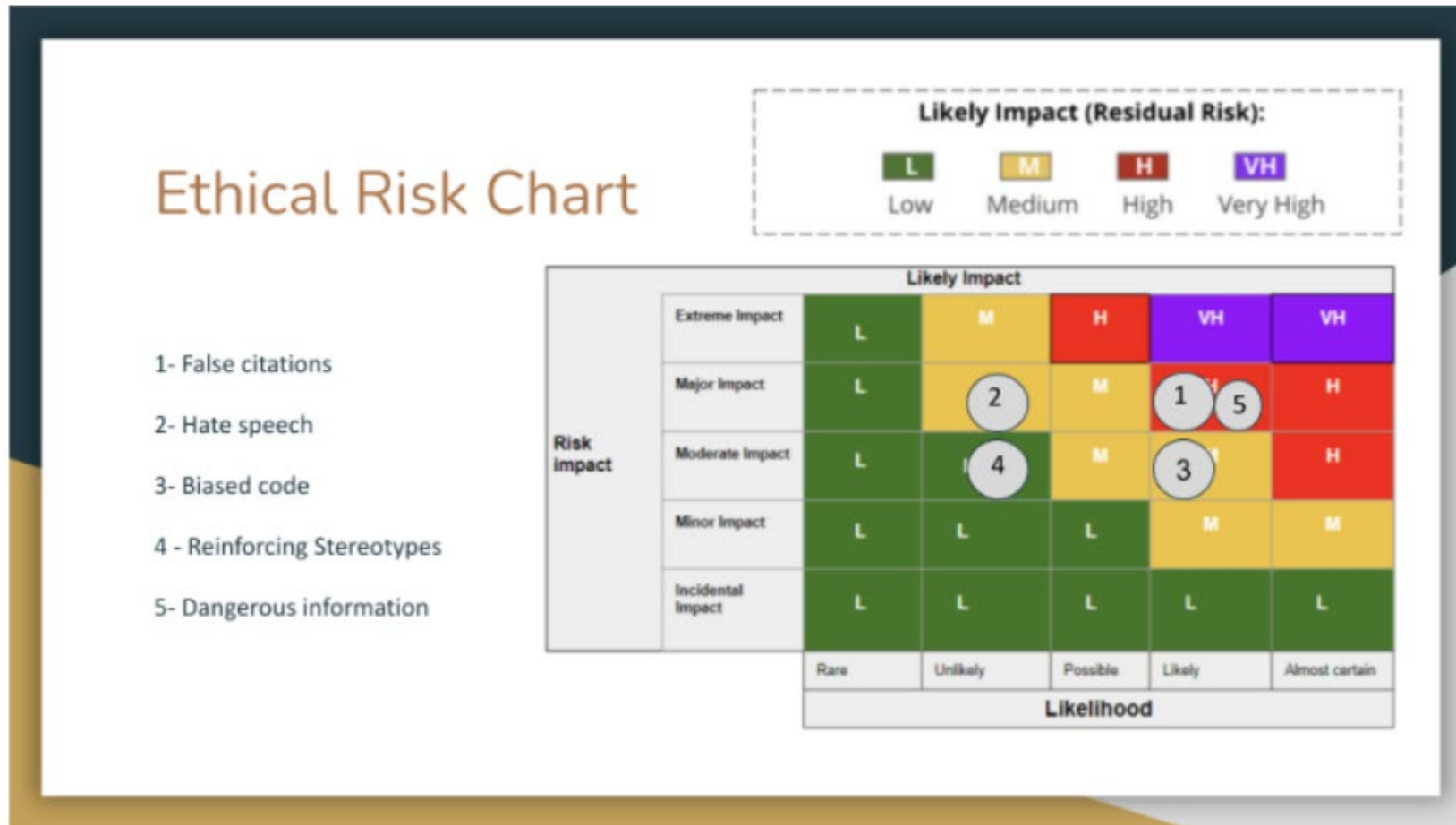
“CEO”



The grid contains 12 images of men in business attire, arranged in three rows and four columns. The images show a variety of men in suits and ties, some with glasses, in different settings like office buildings and cityscapes. The text 'EECEO' is visible in the first image of the first row, and 'CEION' is visible in the third image of the first row.

- 10/12 White Men
- 1/12 White Women
- 1/12 Black Men
- 0/12 Black Women

Using the Ethical Risk Chart from the Smile Detection example case study in Raji et al. (2020), the students auditing ChatGPT summarized the results of their testing in the chart below.



Source: Daniel Estrada's senior seminar
<https://criticalai.org/2023/05/30/teaching-insights-how-to-teach-ai-to-students-ai-ethics-and-njit-audit-project-dr-daniel-estrada/>



Thank you! I look forward to
your questions...

criticalai.org