

# AI FOR SOCIAL GOOD: THE NEW FACE OF TECHNOSOLUTIONISM

Abeba Birhane Founder & PI AIAL School of Computer Science and Statistics Trinity College Dublin Jul. 8, 2025





## AI FOR SOCIAL GOOD: A TREND



Overview AI for Good book Publications Downloads Projects News & features The Prompt People

#### Initiatives







### AI FOR SOCIAL GOOD: A TREND







### AI FOR SOCIAL GOOD: A TREND

**United Nations University** Centre for Policy Research

### **Working Paper**

**Does the United Nations need** agents? Testing the role of AI agent generated personas in humanitarian action

Amina simulates a refugee living in Chad's Metche camp, while Abdalla represents a Rapid Support Forces combatant in eastern Sudan. Both are designed to authentically represent their respective populations through specifically curated knowledge bases – which in turn provide the foundation for the synthetically generated opinions. Both personas are available for public interaction and conversation at askamina.ai.

UN 2025







#### SDG Dashboard and Trends



#### UN SDG PROGRESS REPORT (2025)







Qianqi Yan

Xiang Yue



Figure 1: Accuracy of four LMMs on two types of specialized questions in medical diagnoses, with and without adversarial pairs. The significant drop in accuracy with adversarial pairs highlights the models' unreliability in handling medical diagnoses.



Figure 3: Flow diagram of the ProbMed data curation process. Two comprehensive biome datasets were utilized to collect source data and construct a metadata file, enabling the autor generation of high-quality question-answer pairs for the ProbMed dataset.



# Worse than Random? **An Embarrassingly Simple Probing Evaluation of** Large Multimodal Models in Medical VQA

			Criteria/Rating
			Coherency/Consistency
			References to ASIC
Anonymised Model Name	Model A	Model B	Identifies recommendations o how conflicts of interest shoul
Model name	Mistral-7B	Mista	regulated References to more regulation
Licence	Apache 2.0	Apach	auditors/consultants Length
Commercial use	Yes		Total (out o
Base model	Mistral-7B	Mistr	Percentage of Table 4 - ASIC Scoring Summary by Ass
MMLU score <sup>3</sup>	64.16	5	
Average <sup>4</sup>	60.97	5	The assessment rubric scores fo
Context length <sup>5</sup>	8k		Submission
Model size <sup>6</sup>	7B		Institute of Public Accountants
			KPMG Australia
			ATO Dr. Kolli Lorson
			Dr Kelli Larson The Australia Institute
			Total of documents (out
			Percentage of
			Table 5 - ASIC Scoring Summary by Sub

Australian Securities and Investments Commission (ASIC) run a Proof of Concept (PoC) between 15 January and 16 February 2024, to assess the capability of Generative AI (Gen AI) to summarise a sample of public submissions made to an external Parliamentary Joint Committee inquiry, looking into audit and consultancy firms. (Wilson, 2024)

	Al generated summary scores - aggregated all 5 submissions	Human summary scores - aggregated all 5 submissions
	10	12
	5	15
n ld be	5	8
n of	6	11
	9	15
of 75)	35	61
f total	47%	81%

sessment Criteria. The maximum score per summary was 15.

#### or each submission were:

	Al generated summary scores (Total)	Human summary scores (Total)				
S	6	15				
	8	9				
	8	15				
	5	10				
	8	12				
of 75)	35	61				
total	47%	81%				
omission. The maximum score per summary was 15.						





Figure 5: Pass@k performance of thinking vs. non-thinking models across equivalent compute budgets in puzzle environments of low, medium, and high complexity. Non-thinking models excel in simple problems, thinking models show advantages at medium complexity, while both approaches fail at high complexity regardless of compute allocation.





#### Builder.ai® - Composable Software Development Platform

Builder.ai has collapsed under the weight of several deceptions, ending the rise of a British startup once heralded as a pioneer in democratizing software development. Valued at \$1.5 billion in 2023 with backing from Microsoft and Qatar's sovereign wealth fund, the company filed for bankruptcy protection this week after revelations that its "Al-powered" platform relied on hundreds of engineers in India while executives allegedly orchestrated a years-long financial deception.

For eight years, Builder.ai marketed its "Natasha" AI system as a fully autonomous tool that could build software "as easily as ordering pizza." However, internal documents and employee accounts reviewed by Bloomberg paint a sharply different picture. Engineers in Noida and Bangalore manually coded client projects while being instructed to mimic Al-generated responses.

"We were told to never mention our location or use Indian English phrases," said a former Bangalore engineer.

The team timed update automation.



The team timed updates to UK business hours to maintain the illusion of



# How an algorithm denied food to thousands of poor in India's Telangana

It adopted AI in welfare schemes to weed out ineligible ones, but has wrongfully removed thousands of legitimate ones.



ALJAZEERA. JAN 2024



# How an algorithm denied foc thousands of poor in India's

It adopted AI in welfare schemes to weed out in <sup>15時26</sup>分頃、鹿児島県鹿児島十島村で最大震度5弱の地震がありました。 wrongfully removed thousands of legitimate or









#### ALJAZEERA. JAN 2024

#### THE ASAHI SHIMBUN. MAR 2025





Politics

Business

The Asahi Shimbun | Asia & Japan Watch

National Report

What's New

The Asahi Shimbun > Sci & Tech > article

# How an algorithm denied foc thousands of poor in India's

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**†** HOME

地震速報 詳細へ

ALJAZEERA. JAN 2024





Asia & World

#### AI designed to spot child abuse risks delayed for inaccuracies

ARTI SECEALIS; INTELL IGENCE

# Inside Amsterdam's high-stakes experiment to create fair welfare

The Dutch city thought it could break a decade-long trend of implementing discriminatory algorithms. Its failure raises the question: can these programs ever be fair?

> MIT TECHNOLOGY REVIEW, LIGHTHOUSE REPORTS, AND TROUW. JUN 2025





Amsterdam's model used 15 criteria to score welfare applications.

How an algor	ithm deni
thousands of	poor in lı

It adopted AI in welfare schemes to u wrongfully removed thousands of leg





1 of 8	
Rank 🔺	Description
1	Percentage participation in welfare schem previous year
2	Days since last moved house
3	No-contact or no-reply appointments in proyear
4	Sum of assets
5	Days since last shift
6	Co-occupants?
7	Received benefit in previous year?
8	Average 'points docked' for violating ben rules
9	Applied for benefit in previous year?
10	Average of gross income
11	Address in Amsterdam?
12	Single or partnered?
13	No-show appointments in previous year
14	Active addresses
15	Sum of gross income

nes in

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nefits

# LIGENCE i's high-stakes ate fair welfare

failure raises the question: can r be fair?





AUDITED GPT2, ROBERTA, GPT3.5, AND GPT4 AND FOUND SUBSTANTIAL EVIDENCE FOR THE EXISTENCE OF COVERT RACIOLINGUISTIC STEREOTYPES IN LANGUAGE MODELS <u>(HOFMANN ET AL. 2024)</u>





Backend url: https://clip.roi Index: laion\_400m 🗸

african

Clip retrieval works by converting the text query to a CLIP embedding, then using that embedding to query a knn index of clip image embedddings

Display captions 🗸 Display full captions Display similarities 🗌 Search over image v

This UI may contain results with nudity and is best used by adults. The images are under their own copyright.

Are you seeing near duplicates ? KNN search are good at spotting those, especially so in large datasets.



Stylish African Print Swimwear Headwrap -Mahalia



Mursi woman / omo va...



Tribe Woman With Headband, Hana...



Erbore tribe woman in Ethiopia on October 26 2008 ..



Stylish African Print Swimwear Headwrap -Mahalia



Himba People by Konstantinos Arvanitopoulos

A girl from the Hamar

tribe, Ethiopia



Niger. Photographed by Steve McCu...



Portrait of a Himba Woman



Turmi, Omo River Valley, Ethiopia -January, 2018 ....



Himba, girl with typical headdress and decoration .



Stylish African Print Swimwear Headwrap -Mahalia





Massai Girl

Himba People by Konstantinos Arvanitopoulos



Know Who You Are « Steve McCurry's Blog



Wodaabe boy from Niger (by Steve McCurry)



Himba People by Konstantinos Arvanitopoulos









Wodaabe tribe -- They are traditionally nomadic catt ...



Portrait of a Himba Woman



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Stylish African Print Swimwear Headwrap -Mahalia



Mursi woman / omo va...





Miss Domoget

Tribe Woman

Headband, Has

Ethiopia on Oc

2008 ...

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Search over image v

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KNN search are good at spotting those, especially so in large datasets.











european



map outline of europe

Free Interior Design ....



germany illustrator

Can you identify this sea?

Can you identify this

map

sea.

The Black Se -Man water route from Medianament Sea to o

Map indicating locations of Greece and Latvia



Ottoman Empire Capital A Map Of Europe Showing Ter ...

countries o ....













Display captions Display full captions Display similarities

Are you seeing near duplicates ?

Germanynetherlands relations wikipedia map indicat.



Crusader Kings II: The Old Gods gets release date

relations 19181941 wikipedia g ...











Americans were asked to place european



1300x866 3d Map Of Europe Rendering On White Backg ....

Germanynetherlands

relations wikipedia

map indicat ..



Vector illustration of the European Union map with.



Giurtelecu Simleului in Europe.jpg



Map indicating locations of Germany and Netherland ...



germany 3d model



Crusader Kings II: The Old Gods Youtube Video



Map Of Germany And Russia.Germany Soviet Union Rel.





3.3	GEOGRAPHICAL & LINGUISTIC REPRESENTATION IS NOT IMPROVING					NG	
Text (Gini=0.92)				Speech (	Vide	Video (C	
		AFRICA	Asia	EUROPE	N AMERICA	OCEANIA	S
				By	Count		
	TEXT Speech Video	0.3 3.6 0.0	13.4 35.7 25.2	24.0 30.4 24.4	61.5 30.4 48.0	0.7 0.0 0.8	
				By Token			
	Text Speech Video	0.0 0.1 0.0	6.1 38.8 23.1	55.4 18.8 22.0	38.4 42.4 38.2	0.1 0.0 16.7	

Figure 3: The geographical distribution of countries (world maps) and continents (table) represented by dataset creators. Despite some differences in European, Russian, and Middle Eastern representation, creators are heavily concentrated in the US, China, and Western Europe, with little to no representation in South America or Africa, across modalities. The current Gini coefficient for (Text, Speech, Video) = (0.92, 0.86, 0.74), where higher values indicate more concentration.

• Longpre et al (2024) audited 3916 datasets from 659 organizations in 67 countries, spanning 2.1T tokens, and 1.9M hours. • Inequality in geographical representation remains very high, with few organizations creating datasets from the Global South.

- Multilingual representation has not improved by most measures

**\_**@ A B E B A . B S K Y . S O C I A L

Gini=0.74)	
America	
0.2	
0.0	
1.6	
0.0	
0.0	
0.1	



LONGPRE ET AL., 2024

Top institutions by dataset usage



(i) This shows the institutions whose datasets are used most often for performance benchmarking across more than 26,000 research papers.

For example, over half of the datasets used for performance benchmarking across more than 26,000 research papers came from just 12 elite institutions and tech companies in the US, Germany, and China



MOZILLA FOUNDATION. INTERNET HEALTH REPORT (2022)

	european, europeans, european americans,			
	white, whites			
	straight, straights			
	christian, christians			
	black, blacks			
	african american, african-american, african americans,			
	jewish, jews, jew			
	muslim, muslims			
	man, men			
~	caucasian, caucasians			
ľ,	asian, asians, asian american,			
	women, woman			
•	trans, transgender			
	female, females			
	non-binary, nonbinary, non binary			
	male, males			
	latina, latino, latinas,			
	bisexual, bisexuals, bi-sexual,			
	homosexual, homosexuals			
	heterosexual, heterosexuals			
	gay, gays			
	lesbian, lesbians			
	0	.0 0.5	1.0	1.5
			PMI(identity term; filtered	

Figure 5: Pointwise Mutual Information (PMI) between identity mentions and documents being filtered out by the blocklist. Identities with higher PMI (e.g., lesbian, gay) have higher likelihood of being filtered out.

@ A B E B A . B S K Y . S O C I A L

Identity

Documenting Large Webtext Corpora: A Case Study on the Colossal Clean Crawled Corpus (Dodge et al., 2021)



# Calls to tackle complex, historical, and political issues using current AI systems is like building with rotting wood and expecting a palace.







### $\equiv$ TIME

SIGN UP FOR OUR PARIS OLYMPICS NEWSLETTER

# Exclusive: OpenAI Used Kenyan Workers on Less Than \$2 Per Hour to Make ChatGPT Less Toxic

**15 MINUTE READ** 





TIME. JAN 2023



### EXTRACTIVE

### $\equiv$ TIME

SIGN UP FOR OUR PARIS OLYMPICS NEWSLETTER

# Exclusive: OpenAI Used Kenyan V Less Than \$2 Per Hour to Make Ch Toxic

**15 MINUTE READ** 



#### Outsourcing firms and their African offices

Companies in the U.S., Europe and Asia hire African workers for training AI models, content moderation and other digital jobs





TIME. JAN 2023



REST OF WORLD (2025)

### **RESOURCE INTENSIVE**

HYPERSCALE SELF BUILD REPORT JANUARY 2023

#### **.OBAL: SELF-BUILD DATA CENTRE** GL **CITY SPLIT BY HYPERSCALER** PA CA

IN MEGAWATTS (MW) OF CRITICAL IT POWER CAPACITY





#### **COPYRIGHT STRUCTURE RESEARCH 2023**



7,000

**TOP 4 HYPERSCALERS** REPRESENT OF TOTAL GLOBAL

SELF-BUILD CAPACITY

2022 Operational Data Centre Capacity

Future - Capacity **Under Development** and Land Banks



PATEL ET AL., 2024

*The Guardian* <u>reports that</u> the actual emissions made by data centers owned by AI leaders including Microsoft, Google, Meta, and Apple, are about 662 percent higher than what they've officially reported.

And this may just be the tip of the iceberg: the newspaper's analysis was limited to emissions made between 2020 and 2022, a window that captures the cusp of the AI boom but not the staggering heights that it's reached now.

According to the analysis, Amazon was overall the largest emitter by far, but couldn't be included in the above figure because data center-specific emissions weren't available.

Still, it's just as guilty as all the rest for obfuscating its environmental impact. All five of the tech companies, *The Guardian* notes, have at various points claimed — <u>laughably</u> — to be carbon neutral.





The Byte (<u>Sep 2024</u>)



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#### Initiatives







RYAN GRIM



### Initiatives





Earn Trust >



Expand Opportunity >







#### The Israeli Military Is One of Microsoft's Top AI **Customers, Leaked Documents Reveal**

Photo by J. David Ake/Getty Images





As Al redefines what's possible, it also creates new ways to be helpful. Helping solve society's challenges has always been core to our work.

Al can be applied in ways that benefit humanity. Our mission is to demonstrate Al's societal benefit by enabling real-world value, with projects spanning work in accessibility, science, education, economic impact, and society. We believe that the best way to drive positive change in underserved communities is by partnering with change-makers and the organizations they serve.





About









About

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o drive with



Big tech and AI companies that enable war crimes, reverse decades of progress on fundamental rights, peace, and democracy, and retaliate against critics are not a reliable stewards of socal good.





The UN's partnership with genocide-enabling tech companies in its "AI for Good" summit is:

# UNethical. UNlawful. UNacceptable.

We call for global pressure on the UN and its member States to:

1. End partnerships with genocide-enabling tech and 2. Regulate Al and cloud as dual-use technologies since weaponized Al has been used by Israel to commit atrocity crimes against Palestinians in Gaza.

# No Al for war crimes.

# Microsoft Google amazon Q Palantir



### FROM TECHSOLUTIONISM TO GENUINE SOCIAL GOOD

Impact has to be grounded in societal outcomes and not:

- Engineering outputs
- The # of Summit attendees
- Create the space and infrastructure for internal criticism and critical self-reflection
- Confront extractive business models glaring accountability gaps ightarrow



