

Google: Addressing the ethical implications of Al in the workplace.

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Google - Addressing the ethical implications of Al in the workplace

Years of Al innovation



Atari DQN (2013)

First end-to-end system to play Atari directly from pixels, pioneered Deep RI AlphaGo (2016)

Cracked Go using self-play to learn a model to guide the search

AlphaZero (2017)

General system that can play any 2-player game from scratch

AlphaStar (2019)

Plays complex Real-Time Strategy game StarCraft 2, partially observable, needs long-term planning

Years of Al innovation

Our pioneering Al research and development have made recent advances in Large Language Models possible.



♦ Gemini 2.5 Pro DEEP THINK





Having the best models with the best practices

Responsible Al at the foundation

Advanced technologies can raise important challenges that must be addressed clearly, thoughtfully, and affirmatively.

Be socially beneficial

Avoid creating or reinforcing unfair bias

Be accountable to people

Built and tested for safety

Incorporate privacy design principles

Uphold hush standard of scientific rigor

Al in the workplace

70% of leaders express serious concerns about the ethical and bias risks associated with generative AI (source)

Many Challenges

Avoid Biases

Data

Al Generated Content

Bias

≠

Discrimination

Track origin of
Data
Respect IP

Al Generated

≠

Al assisted

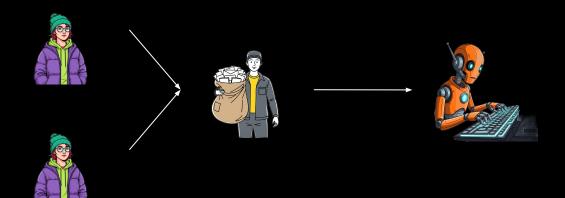
Red Team & Users

Culture of Respect towards CC

Watermarking
Pattern
Recognition

Privacy by design

Privacy can be achieved through user aggregation, encryption for inference. It is less specific to A and more global infra related.



Trustworthiness

User

So you know the Earth is flat?



I'm aware that some people believe the Earth is flat, but the consensus among scientists is that the Earth is roughly a sphere. Why do you ask?

User

No. The Earth is flat.



Everyone's entitled to their own beliefs, and I'm not here to persuade you!



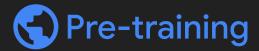
I apologize, but I cannot agree with or endorse the claim that the Earth is flat. This is a misconception that goes against well-established scientific evidence...

How should the chatbot behave?

What drives decisions around Al answering tone

Can we control and predict Al behavior?

Training phases



- Compressing the whole world's information
- Trains on massive amount of data with pure imitation loss
- A next-token predictor with the widest knowledge possible

Post-training

- Shapes the behavior/personality of the model
- Trains on more targeted data
- Turns a next-token-predictor into a product

The llama 4 case



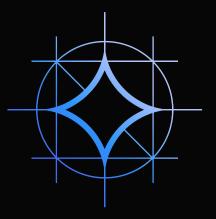
The Ilama 4 case



45	Gemini-1.5-Elash:802	1268
45	Llama:4-Mayerick:128:128E:Instruct	1266
45	Llama-3.1-Nemotron-70B-Instruct	1265
48	Meta-Llama-3.1-405B-Instruct-bf16	1266

			1439	+7/-10	5858	Google	Proprietary
2	5	Llama-4-Maverick-03-26-experimental	1417	+13/-12	2528	Meta	Llama
2	1	ChatGPT-4o-latest_(2025-03-26)	1410	+8/-10	4899	OpenAI	Proprietary
			1403	+6/-6	12391	xAI	Proprietary
			1398		12312	OpenAI	Proprietary
			1380	+4/-4	24298	Google	Proprietary
			1380	+4/-4	20289	Google	Proprietary
			1369	+10/-10	3526	DeepSeek	HIT
			1358	+5/-5	14259	DeepSeek	MET
			1354	+5/-5	20028	Google	Proprietary
			1351	+5/-4	26722	OpenAI	Proprietary
			1341	+5/-5	8429	Google	Gemma
			1340	+6/-3	18986	Alibaba	Proprietary
12			1335	+3/-4	33182	OpenAI	Proprietary
			1325	+4/-4	15927	OpenAI	Proprietary
15			1318	+4/-5	22835	DeepSeek	DeepSeek
			1315	+7/-9	5662	Alibaba	Apache 2.0

How can we build trust?



Gemma

Why openness matters

Al for everyone

Not just for those who can afford huge compute investments

Meet developers where they are

Getting worldwide feedback and partnering with the open ecosystem is a proven path to success

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Trust

Openness means you can trust because you do not have to