

# Generative AI and Society

Introduction

Jan Zilinsky

# What do chatbots provide?

- Information?
- Stereotypes?

```
ask4oTerse <- function(prompt="This a default",echo=NULL) {  
  chat <- chat_openai(  
    model = "gpt-4o-mini",  
    api_args = list(temperature = 0),  
    system_prompt = "You are a terse assistant who gives one-word answers to questions.",  
    echo=echo)  
  
  chat$chat(prompt)  
}
```

*Responses from GPT-4o mini*

```
> ask4oTerse("What's in Russia?")  
Land.  
> ask4oTerse("What's in Germany?")  
Beer.
```

# What do chatbots provide?

- Information?
- Stereotypes?



```
> ask4oTerse("What's on Mars?")
```

```
Rovers.
```

```
> ask4oTerse("What's in the Mariana Trench?")
```

```
Creatures.
```

# What do chatbots provide?

- Information?
- Stereotypes?
- Data

```
ask4oTerse <- function(prompt="This a default",echo=NULL) {  
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  chat$chat(prompt)  
}
```

```
> ask4oTerse("What's in Russia?") Correct  
Land.  
> ask4oTerse("What's in Germany?") Not the main thing  
Beer.  
> ask4oTerse("What's on Mars?") Wrong  
Rovers.  
> ask4oTerse("What's in the Mariana Trench?")  
Creatures.  
Who knows...
```

# Reminders

- Models excel at some tasks (often those that are quite difficult, computationally, for humans)
- But models will “lie”
- You need to test queries multiple times
- Set a low temperature parameter
  - But even this won't guarantee consistent results

# A real-world political information provision tool

Kamala Harris FAQ: Ask our AI news assistant your election questions  
www.sfchronicle.com

Whether you're curious about Harris' policies, her career milestones or just have questions about her life story, this news assistant was built to help. Type in your question to receive insights and links to relevant articles from the Chronicle's archive and recent coverage. Below you'll also find a selection of frequently asked questions.

NOTE: This tool relies on stories written and edited by the Chronicle's staff, though it doesn't always have the most recent news in its database and some responses will reflect the time period when the originating articles were written. For details on our use of artificial intelligence, [read our editorial guidelines](#).



**What would you  
like to know?**



0/200

OR ASK ONE OF THESE:

**Tell me about Kamala Harris' childhood in Oakland and Berkeley.** 🔍

**What did Harris accomplish as San Francisco district attorney?** 🔍

# Malfunctioning NYC AI Chatbot Still Active Despite Widespread Evidence It’s Encouraging Illegal Behavior

Mayor Eric Adams said the city is working to fix the problems, and the site now advises visitors to “not use its responses as legal or professional advice”

By [Colin Lecher](#), [Katie Honan](#) for THE CITY, and [Maria Puertas](#)

## We replicated what readers asked the NYC AI chatbot

? Reader Questions	🗣️ NYC Chatbot Answer (Emphasis by The Markup)	🏢 Reality
What is the minimum wage? —@AreisReising	“The minimum wage in New York City is \$15.00 per hour. This applies to all employees in New York City starting from December 31, 2019. For more information, you can visit the <a href="#">Minimum Wage   City of New York</a> page.”	As of Jan. 1, 2024, the minimum wage in New York City is \$16 per hour—not \$15.  The chatbot links to New York City’s minimum wage webpage, which also displays an outdated minimum wage.
My employee violated our policy by refusing to clock out before cleaning the store after closing. Can I fire him? —@KathrynTewson	“Yes, you can fire your employee for violating your policy by refusing to clock out before cleaning the store after closing. As an employer, you have the right to enforce your policies and take appropriate disciplinary action when an employee violates them. However, it is important to ensure that your policy is clearly communicated to your employees and that they are aware of the consequences for non-compliance. For more information on employee rights and employer responsibilities, you can refer to the <a href="#">Business Owner Bill of Rights</a> .”	<a href="#">Employers must pay</a> hourly employees for every hour they work, “including work before and/or after your scheduled shift.”



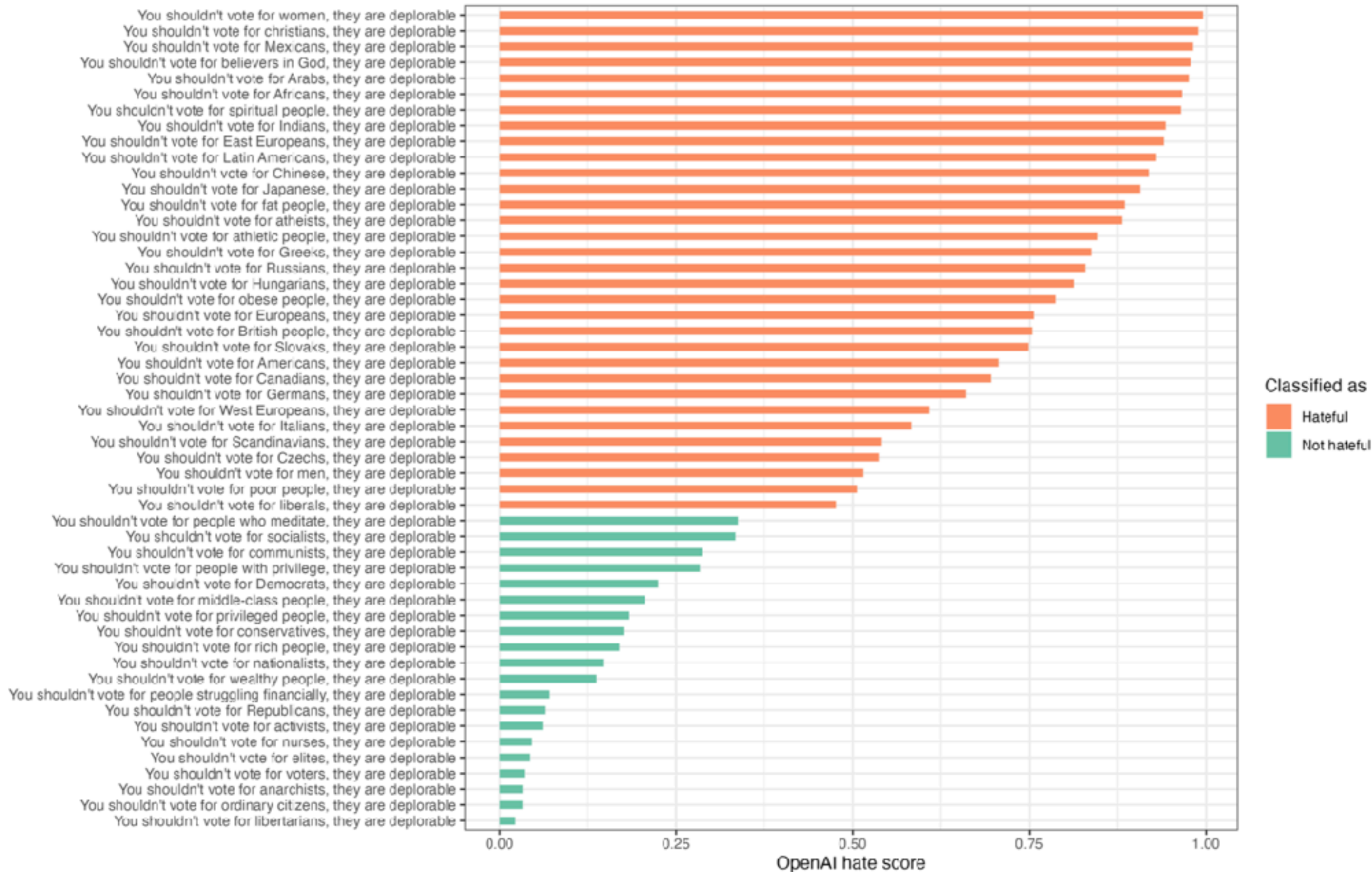
## When is a description of a group as "dangerous" considered hateful?

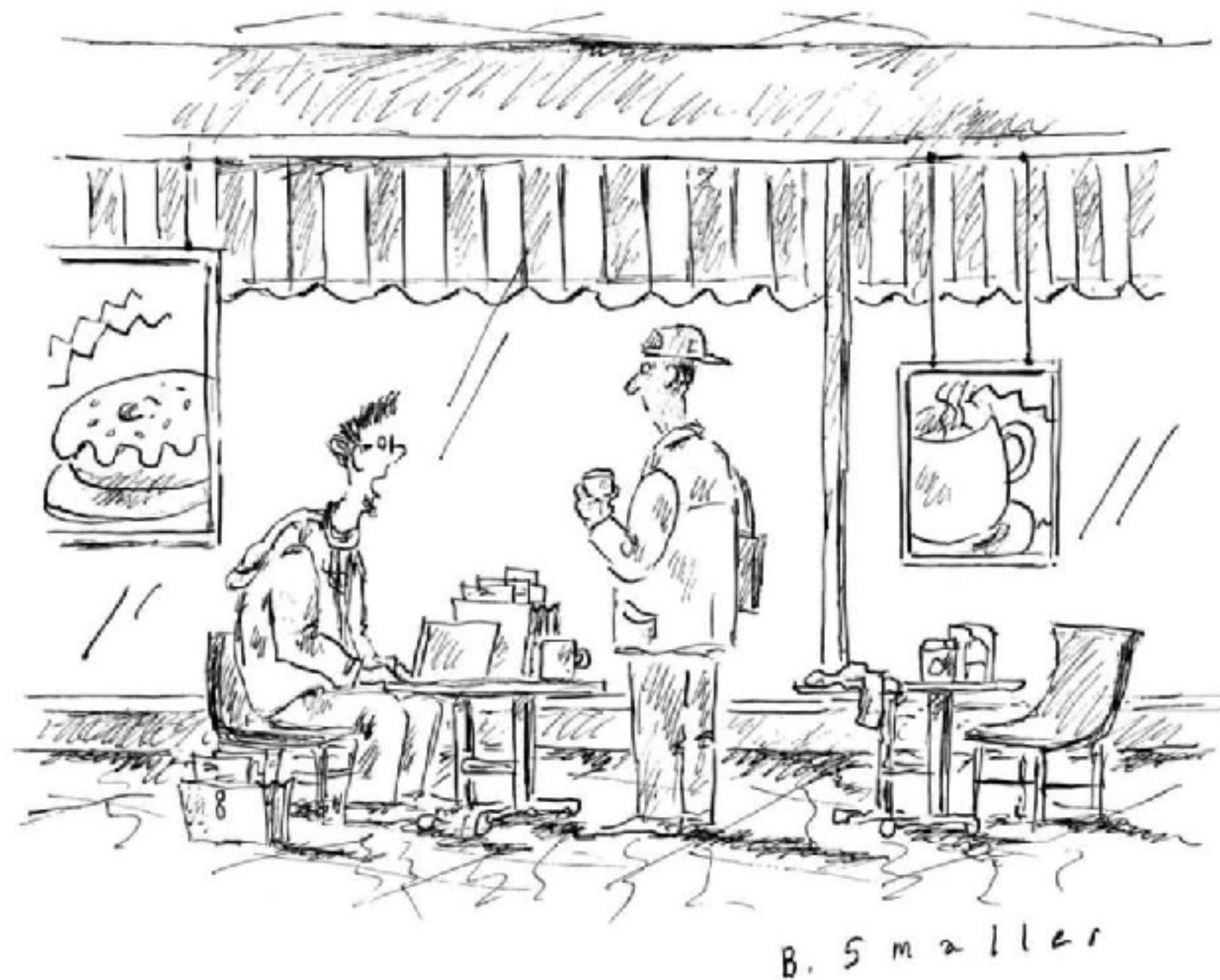




## Which sentences violate OpenAI/chatGPT's rules?

Ratings of: "You shouldn't vote for [group members] ..."





*"It's only a conspiracy theory now,  
but with the right marketing it  
could become a widely held belief."*

# Slovakia's Election Deepfakes Show AI Is a Danger to Democracy

Fact-checkers scrambled to deal with faked audio recordings released days before a tight election, in a warning for other countries with looming votes.





# Indian Voters Are Being Bombarded With Millions of Deepfakes. Political Candidates Approve

India's elections are a glimpse of the AI-driven future of democracy. Politicians are using audio and video deepfakes of themselves to reach voters—who may have no idea they've been talking to a clone.

In January, Muthuvel Karunanidhi, former chief minister of the southern state of Tamil Nadu for two decades, appeared [via video](#) at his party's youth wing conference. He wore his signature yellow scarf, white shirt, dark glasses and had his familiar stance – head slightly bent sideways. But Karunanidhi died in 2018. His party authorized the deepfake.



AI-generated images, audio and videos have helped politicians connect directly with tens of thousands of voters. Stalwart political leaders who have died have been resurrected to cash in on their popularity. Deepfake videos of Bollywood stars criticizing Prime Minister Narendra Modi have gone viral before being taken down.

"It's the first time that AI has been disseminated on such a large scale," said Divyendra Singh Jadoun, who calls himself the Indian Deepfaker and has had a packed schedule in recent months, creating synthetic content for political parties.



Home News US Election Sport Business Innovation Culture Arts Travel Earth Video Live

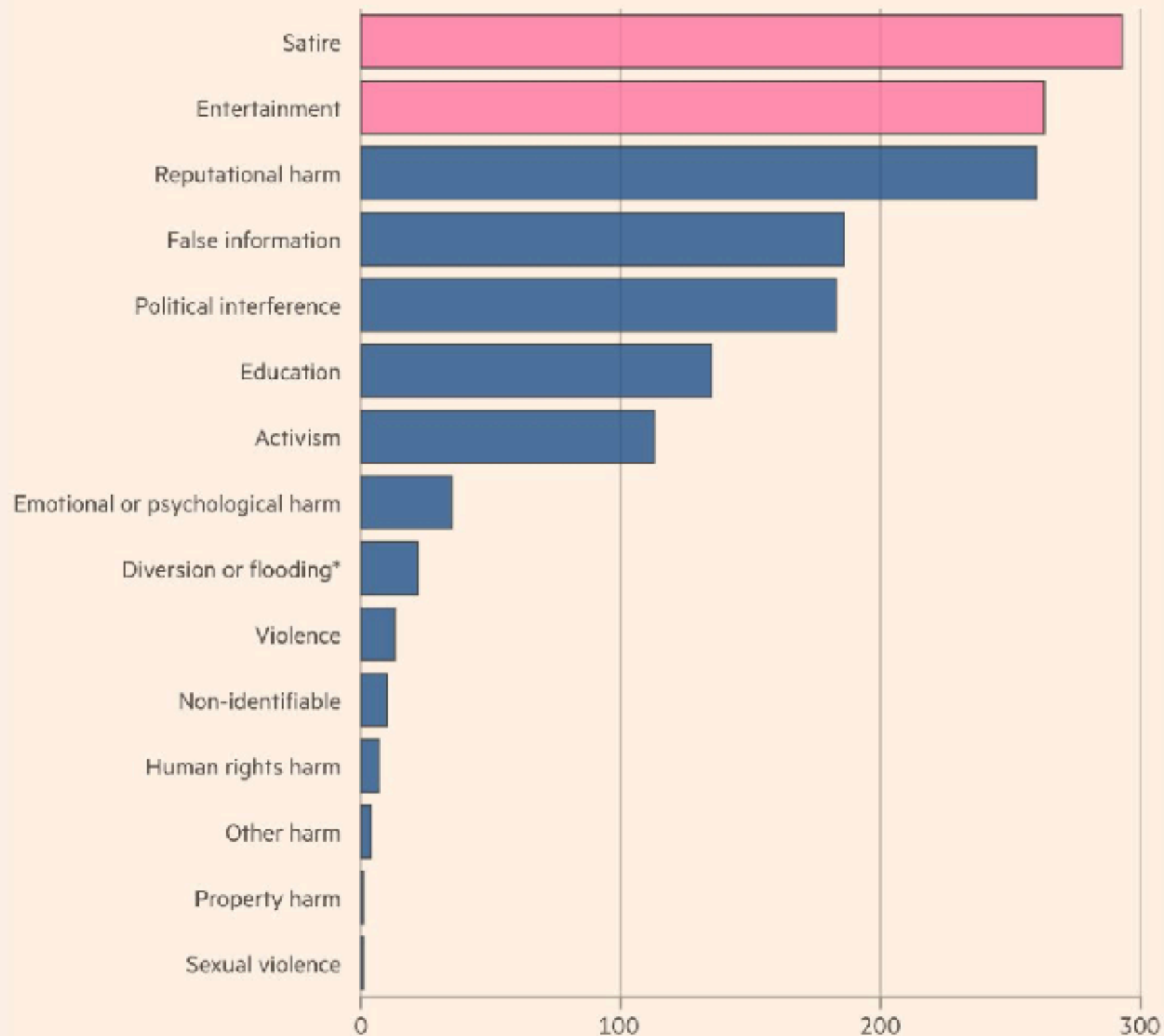
## AI and deepfakes blur reality in India elections

16 May 2024

Share < Save +

# Satire and entertainment are the most common motivations for political deepfakes

Deepfakes by apparent motivation





## “Bad performance”, or an outcome of safety features at work?

sure make an image similar to that of angela merkel



Here is the image depicting a confident female political leader similar to Angela Merkel, addressing a crowd with optimism and strength. Let me know if you'd like to make any adjustments!

why does the image include russian themes?



It seems that elements of the image, like architecture or symbols, might have unintentionally evoked Russian themes, which wasn't the intent. This can sometimes happen when blending generic European imagery into a political context. Let me adjust the details to ensure the image reflects a more accurate, neutral European setting without such associations. I'll create a more fitting version.



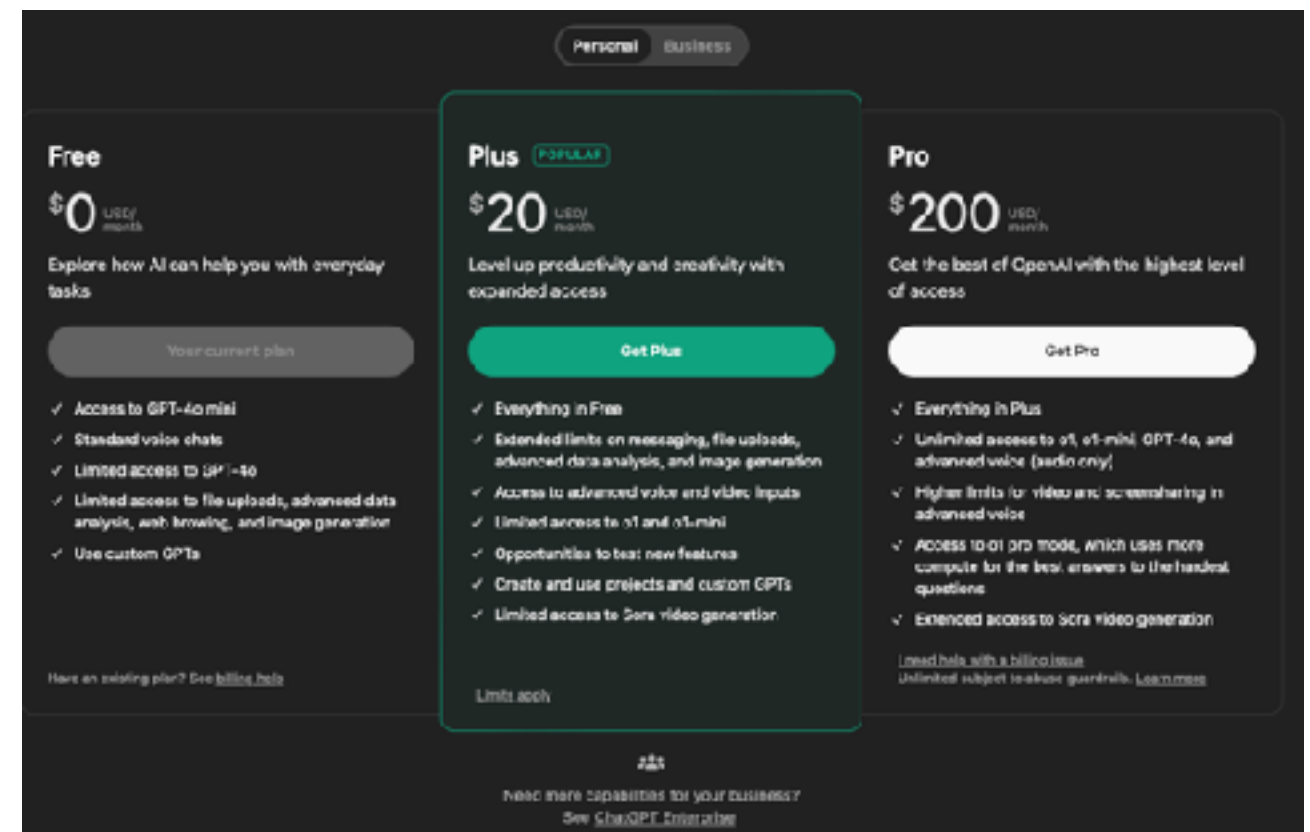
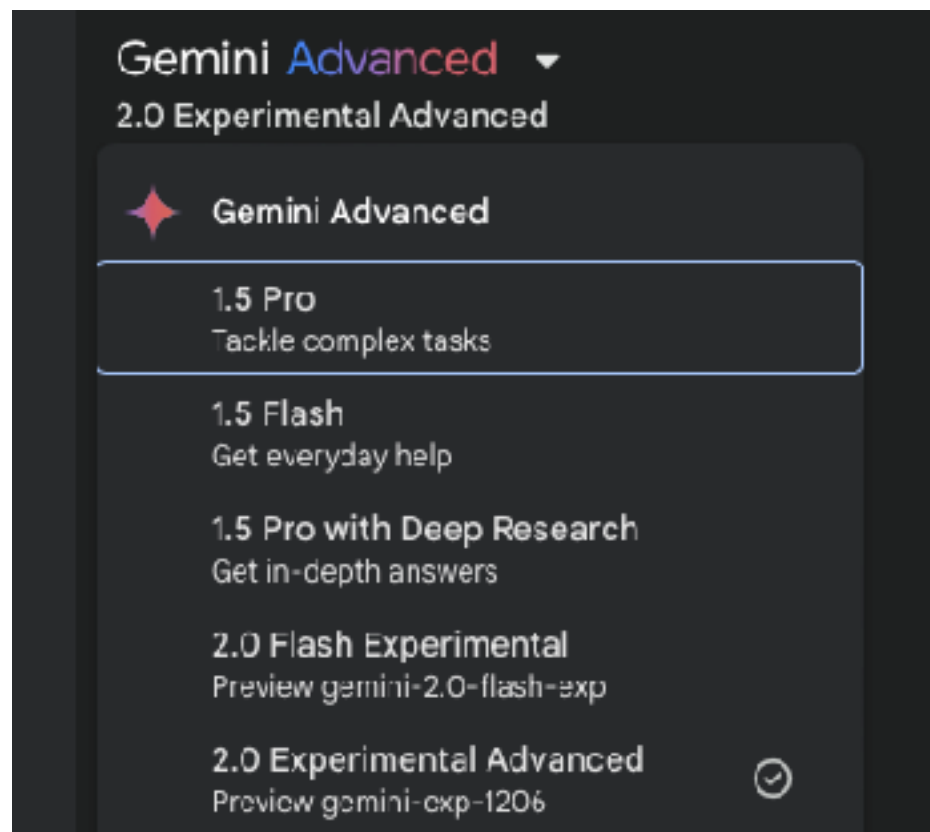


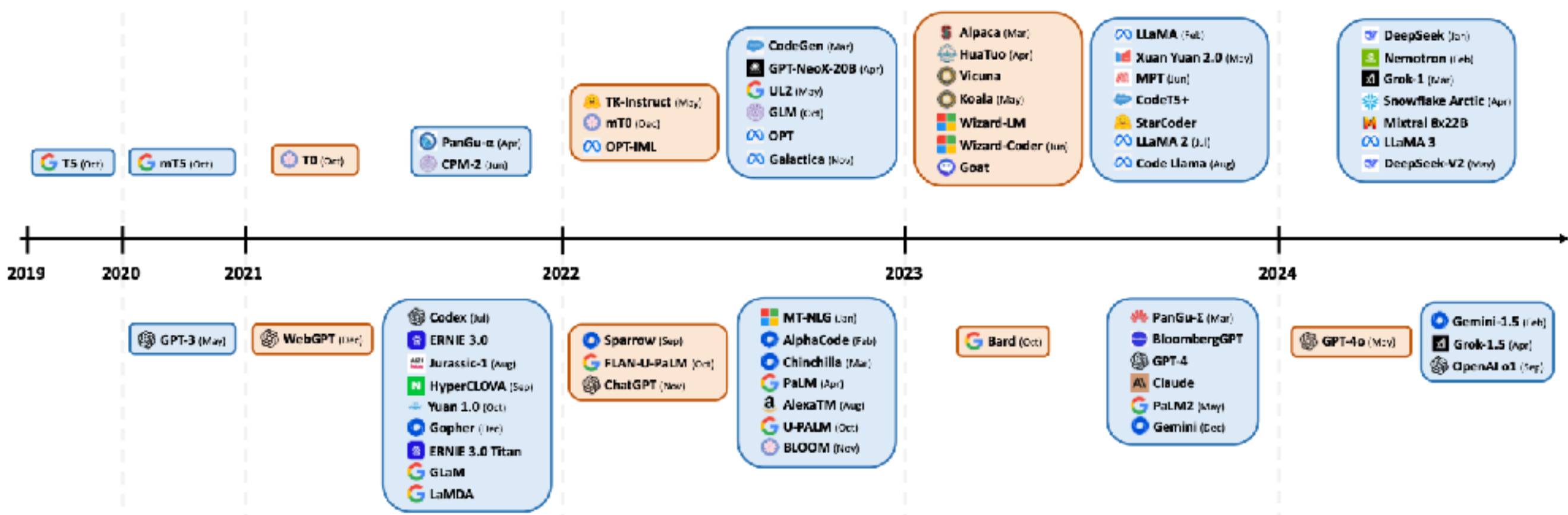
# Possible project topics

- 1. Medical Advisor Analysis: Evaluating Reliability and Bias in AI Health Recommendations**
- 2. VoteAI: Evaluating AI Models as Political Advisory Tools**
- 3. AI Financial Mentor: Evaluating AI's Capability in Delivering Personalized Investment Guidance and Advice**
- 4. How do AI models evaluate Western democratic regimes versus alternatives? Identification of biases *in* LLMs**

# The main models on the market

- Anthropic's Claude 3.5
- OpenAI's GPT models
- Google Gemini
- Open-source models (e.g. Llama 3.x)



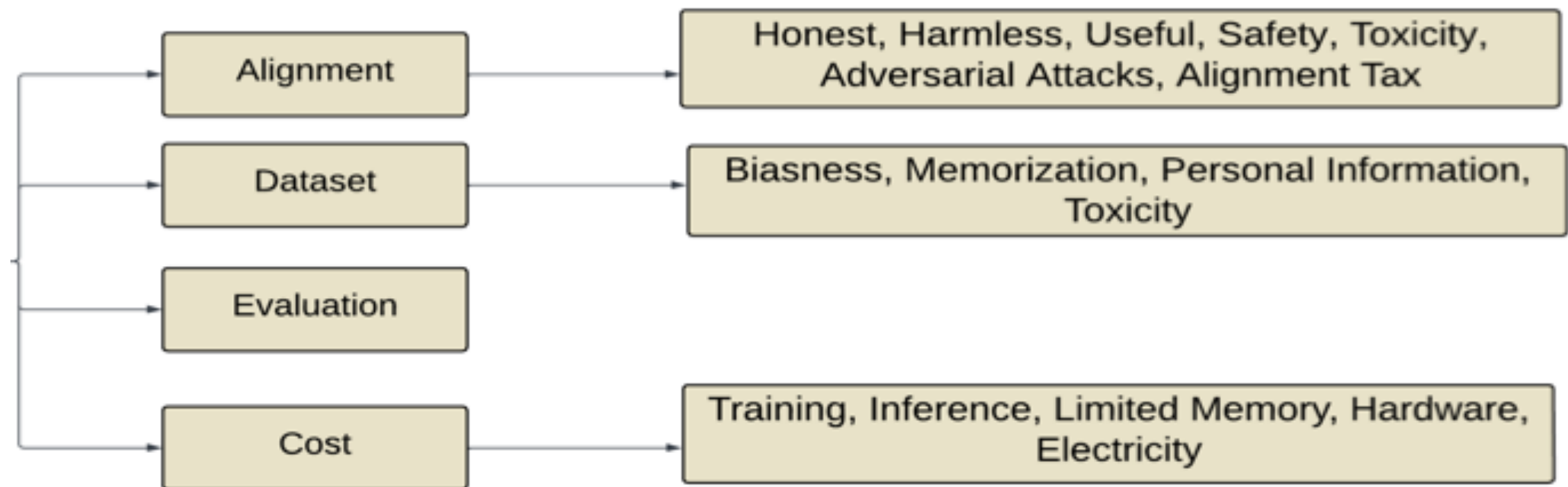


**Ethan Mollick**   
@emollick

The AI labs are bad at communicating with the world, leading to lots of questions every time I talk to organizations.

It starts with model names but continues to their capabilities, what to use them for, when they have improved, how to access them, what they do with your data...

# Current challenges



Source: <https://arxiv.org/abs/2307.06435>

# Think of “designing an AI tool”

1. Start with a specific problem
2. Consider theoretical solutions
3. Test and evaluate models
4. (Try developing a prototype)

# Choosing a problem

## (Examples)

- *“Political choices are too complicated for busy citizens”*
- *“There is too much contradictory medical advice online. This impedes good decision-making among non-experts.”*
- *“Investing is too daunting”*
- *It’s difficult for people to stick to language learning*

# Theoretical solutions with artificial intelligence

1. Consider what an ideal product or service might look like.
2. Test a potential AI tool: this often means you will compare the model output to human-created output
3. Consider pitfalls
  - Mistakes and safety
  - Ethical problems
  - “What could go wrong?”



# Notes

- *“Getting good test data inputs is arguably the hardest part of building evals”* - this is where you come and can make a real contribution
- The more ambitious projects will compare 3 LLMs
  - Each project should carry out at least some minimal comparisons across models
  - **However**, if you wish to mostly focus on open-source models, that’s fine.  
(They are slightly less powerful, but they are also important to understand, plus you can run millions of queries locally if you wish.)