Happily ever after?

A challenging view on contemporary AI narratives

About me

Stefanie Stoppel

ML & Data Engineer @ inovex GmbH

stefanie.stoppel@inovex.de

On Stage

AI Narratives

Ingredients

Off Stage

Supply Chain of AI

AI Realities

AI Narratives

"AI will lead
to a better future"

"We will create AGI soon
and need to make sure
it's aligned with
human values"

"AI will help us solve
our most pressing problems"

Ingredients

Algorithm **Data** **Compute**

Algorithm   Data   Compute

Algorithm **Data** Compute

Algorithm   Data   **Compute**

Supply Chain of AI

Algorithm   Data   Compute

Algorithm   Data   Compute

Algorithm   Data   Compute

AI Realities

Social

Bias &
Discrimination

Deepfakes

Power

Centralization & Control

Manipulation & Misinformation

Public Discourse

"AI will lead to a better future"

"AI will help us solve our most pressing problems"

"We will create AGI soon and need to make sure it's aligned with human values"

AI has real &
material impacts
right now

We can shape
the world we want to live in

And it's valid not to use AI to do that

Because technology
can't fix social problems

Thanks :)

LinkedIn

Twitter

Sources - Debunking Algorithm, Data & Compute

- Chart: [Number of parameters in notable artificial intelligence systems](), by Our World in Data
- Chart: [Number of datapoints used to train notable artificial intelligence systems](), by Our World in Data
- Chart: [Computation used to train notable artificial intelligence systems](), by Our World in Data
- Chart: [Affiliation of research teams building notable AI systems](), by Our World in Data
- GPT-4 [Technical Report]() by "Open"AI (See section 2 for "details" on the model size, architecture, training data set & process etc. 😉)

Sources - AI Realities: Environmental

- Raw materials used in computing hardware
- Al Jazeera Article on cobalt mining lawsuit by 14 DRC families against Apple, Alphabet & Co.
- Article on Cobalt Mining, bearth.org
- Article on impacts of rare material mining, DW
- Article on CO2 emissions of large language models, MIT Technology Review
- Article on "AI's dirty secret", El Pais
- arxiv paper "Estimating the Carbon Footprint of BLOOM, a 176B Parameter Language Model", by Hugging Face employees

Sources - AI Realities: Social

- If you want to learn of more recent examples of bias & discrimination by AI models, use a news search engine like Google News
- Great recent article "Inside the Suspicion Machine" about an AI system for predicting whom to investigate for social benefit fraud and how it discriminates by gender and ethnicity, the Wire
- Article "AI porn is easy to make now. For women, that's a nightmare.", Washington Post
- Article "A horrifying new AI app swaps women into porn videos with a click", MIT Technology Review

Sources - AI Realities: Economic

- Article "[From lawsuits to tech hacks: Here's how artists are fighting back against AI image generation](#)", Euronews
- Infographics on "[Big Tech - The rise of GAFAAMT](#)" by the Transnational Institute (TNI)
- Infographic & Report on "[Big Tech's Billion-Dollar Acquisitions](#)"

More resources :) - Reading

- Great scientific paper "On the Dangers of Stochastic Parrots: Can Language Models Be Too Big? 🦜" by Gebru et al.
- "Statement from the listed authors of Stochastic Parrots on the 'AI pause' letter"