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INFORMATICS

ETHICS AND CHAT GPT

Introduction to Machine Learning – Lecture 3.
Balázs Nagy, PhD



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DEPARTMENT OF
ARTIFICIAL
INTELLIGENCE



BOSCH

Mindset

Tristan
Harris



Center for
Humane
Technology

Our mission is to shift technology towards a more humane future that supports our well-being, democratic functioning, and shared information environment.

Aza
Raskin



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The AI dilemma

References:

- The AI dilemma speech

https://www.youtube.com/watch?v=cB0_-qKbaI4&t=1163s

<https://www.youtube.com/watch?v=xoVJKj8lcNQ&t=203s>

- Video

<https://www.youtube.com/watch?v=uG8vItscFKc>



Théâtre D'opéra Spatial - Allen Jason



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How do we treat AI?

AI won an art contest, and artists are furious



By [Rachel Metz](#), CNN Business

Published 10:54 AM EDT, Sat September 3, 2022

An AI-generated artwork's state fair victory fuels arguments over 'what art is'

- How do we treat AI?
- AI taking over our jobs?
- Tool or Competition?

He used AI to win a fine-arts competition. Was it cheating?

One judge said the striking piece evoked Renaissance art. But some critics compared it to 'entering a marathon and driving a Lamborghini to the finish line.'



By [Drew Harwell](#)

September 2, 2022 at 11:08 a.m. EDT



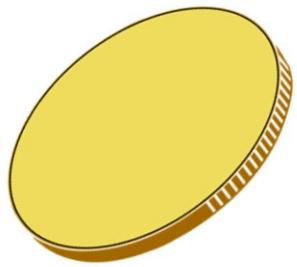
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Two sides

Helping
Tool



OR

Fierce
Rival

*„We can achieve
great things with it.”*

„AI take our jobs.”



Closure?

An old master? No, it's an image AI just knocked up ... and it can't be copyrighted

US ruling on works created through artificial intelligence gives boost to creative workers fighting for livelihoods

The decision, delivered by the US copyright office review board, found that Théâtre d'Opéra Spatial, an AI-generated image that won first place at the 2022 Colorado state fair annual art competition, was not eligible because copyright protection “excludes works produced by non-humans”.

Artist Jason Allen claimed his use of the online AI-platform Midjourney allowed him to claim authorship of the image because he “entered a series of prompts, adjusted the scene, selected portions to focus on, and dictated the tone of the image”. But the board ruled that “if all of a work’s ‘traditional elements of authorship’ were produced by a machine, the work lacks human authorship, and the Office will not register it”.

https://www.theguardian.com/technology/2023/sep/24/an-old-master-no-its-an-image-ai-just-knocked-up-and-it-can-t-be-copyrighted?fbclid=IwAR0XaFtPaDvqG-lsjVal_XuxjR5qXiRN_hlHreusy2LTL_kqtizwGlg24-Q



Attempt #1

Prompt:

A big red fire breathing dragon flying over a ruined castle on a cliff overlooking the sea, with a stormy sky and crashing waves, eerie, moody, atmospheric

Software: SD online
Iteration: 2



Road to success



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Attempt # many

Prompt:

Acrylic painting of a mountain landscape, with a stormy sky and a cabin nestled in the forest, high contrast, high resolution

Software: SD offline

Iteration: 40

Batch: 4



Optional Homework #1 (10 points)

- Generative Art Competition
- Generate a picture with a generative AI
- Topic:
„Majestic creature”
- Document the used software or application and the steps that lead to the final image
- Include the used prompt
- Option 1:
Dall-E
<https://openai.com/dall-e-2>
- Option 2:
Stable Diffusion XL online
<https://clipdrop.co/stable-diffusion>
- Option 3:
Stable Diffusion XL offline
<https://github.com/AbdBarho/stable-diffusion-webui-docker>
- Option 4:
Midjourney
- Option 5:
Any other Generative model



Elephant in the room

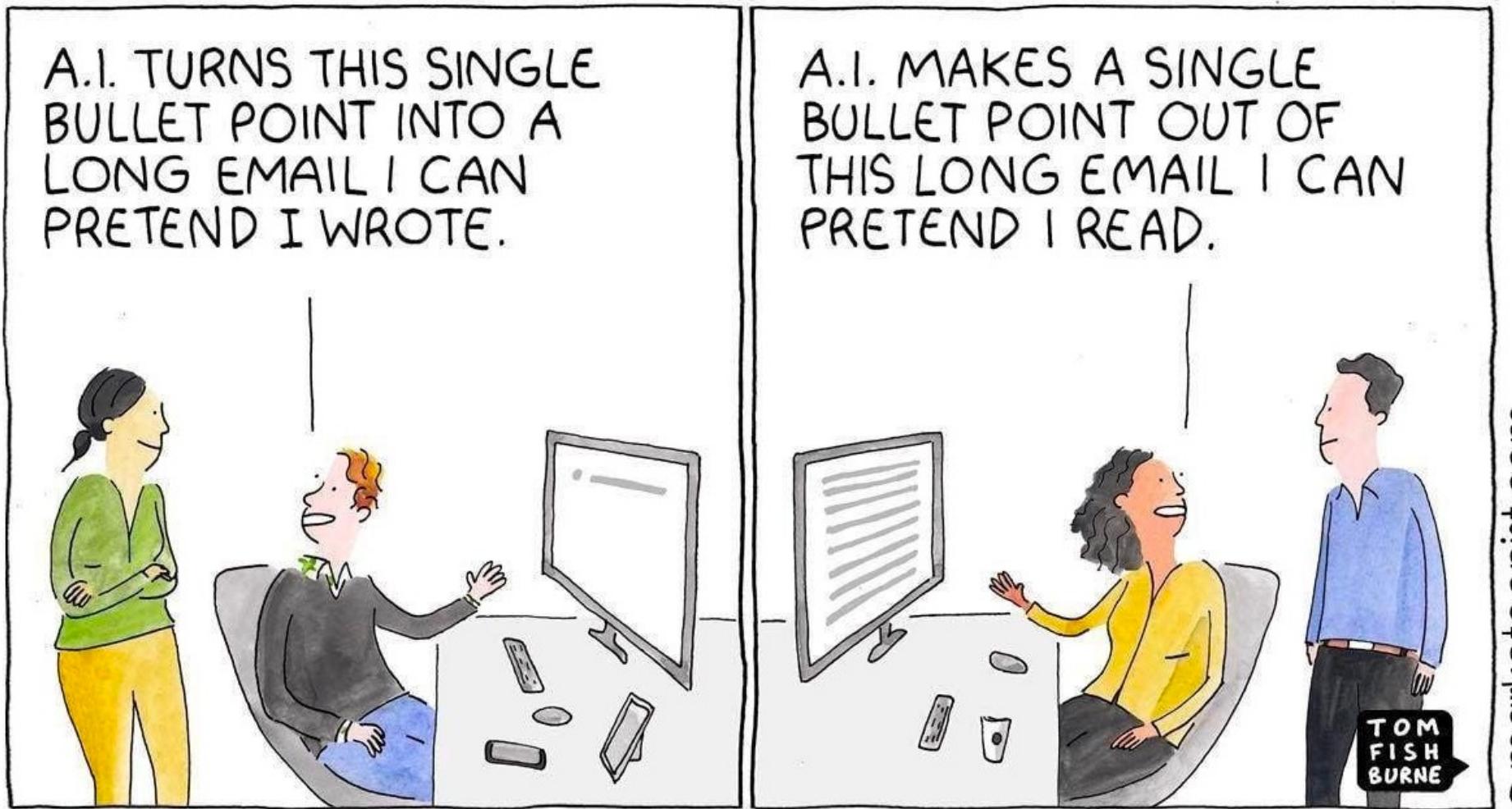


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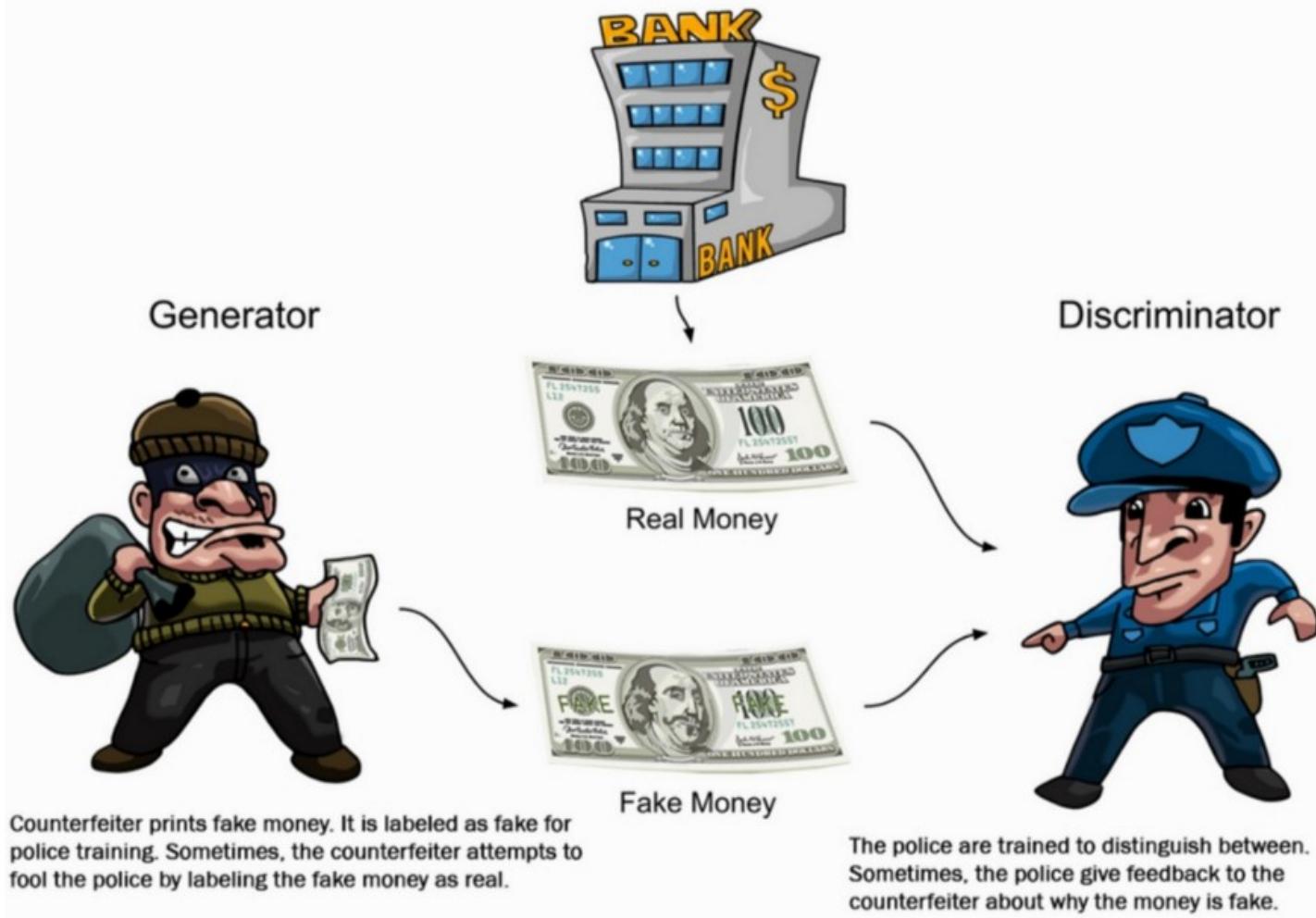
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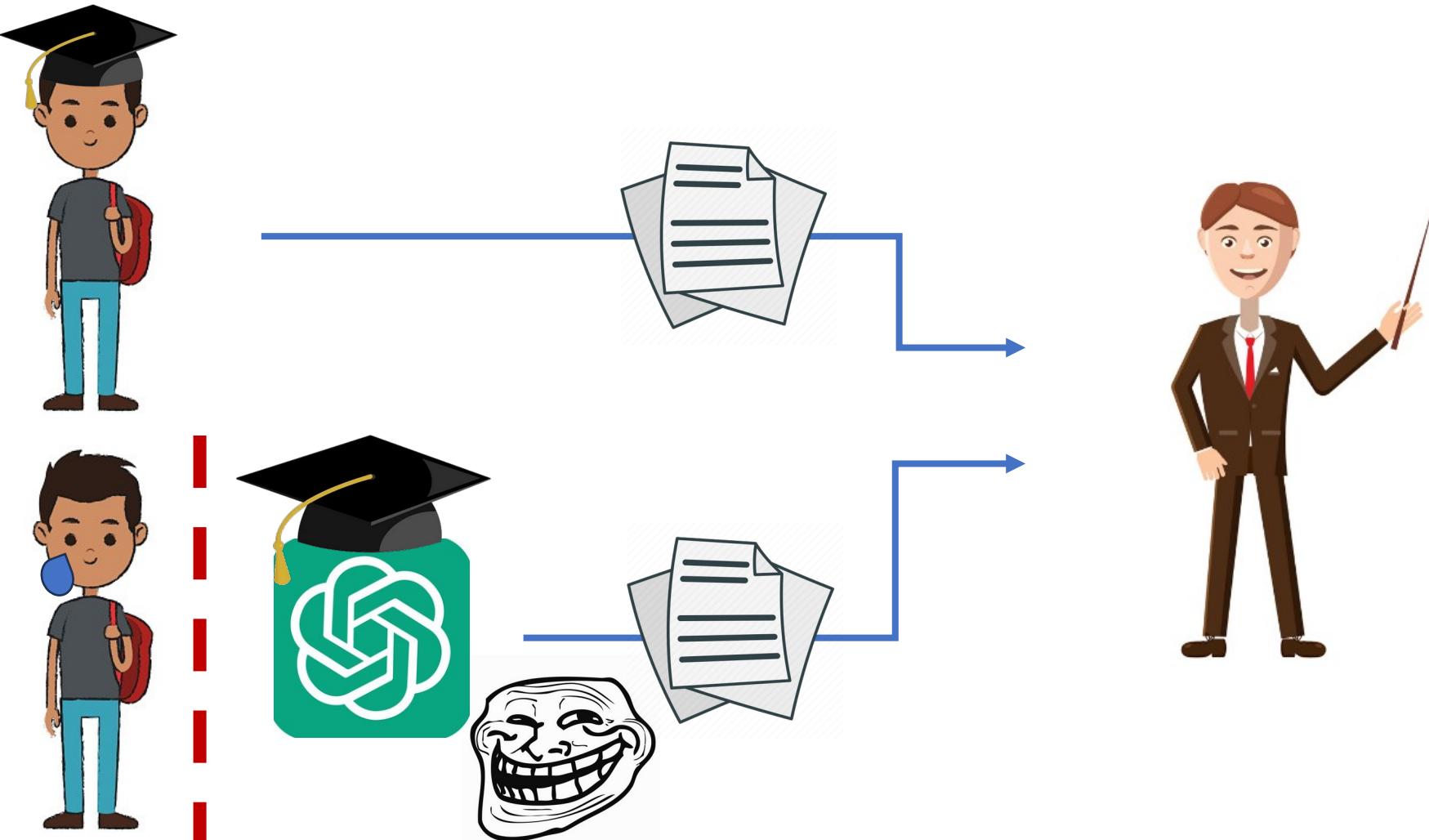
Chat GPT use case



Generative mechanism



Possible scenario



Different AI, same problem

George R.R. Martin Among 17 Top Authors Suing OpenAI, Alleging ChatGPT Steals Their Works: ‘We Are Here to Fight’

By Todd Spangler ▾

**ChatGPT vs Human Writers:
Which is Better for Your Content
Needs?**



3 rules of technology

- 1: When you invent a new technology, you uncover a new class of responsibilities
- 2: If the tech confers power, it starts a race
- 3: If you do not coordinate, the race ends in tragedy



Social media

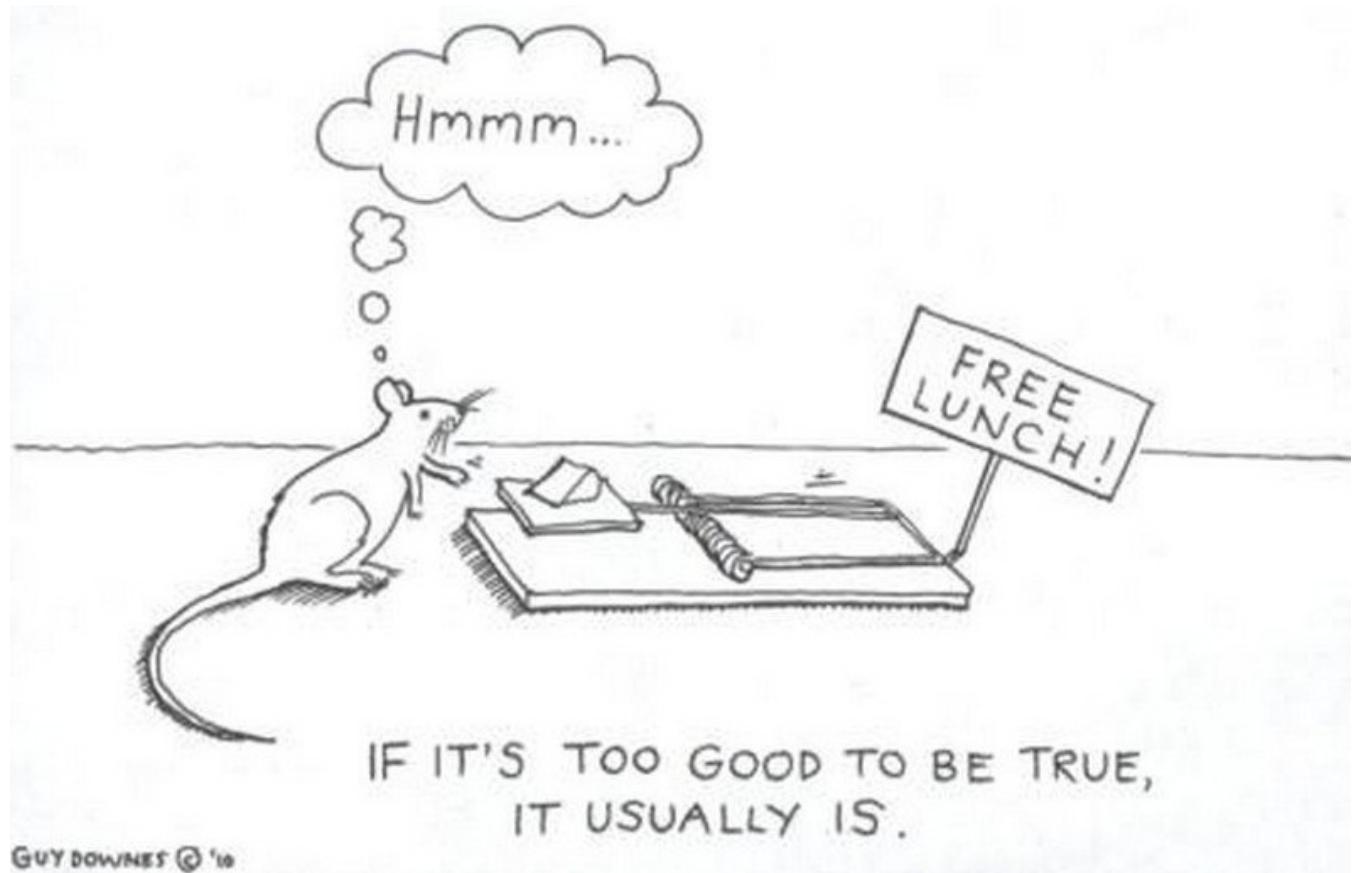


- "Give everyone a voice"
- "Connect with your friends"
- "Join like-minded communities"

Is social media free?

No free lunch

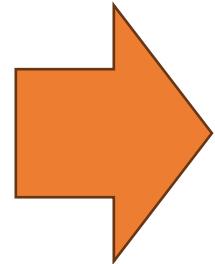
There is always a price.
If there is no price to
pay, **you are the price.**



Data driven word



First contact with AI – Social media

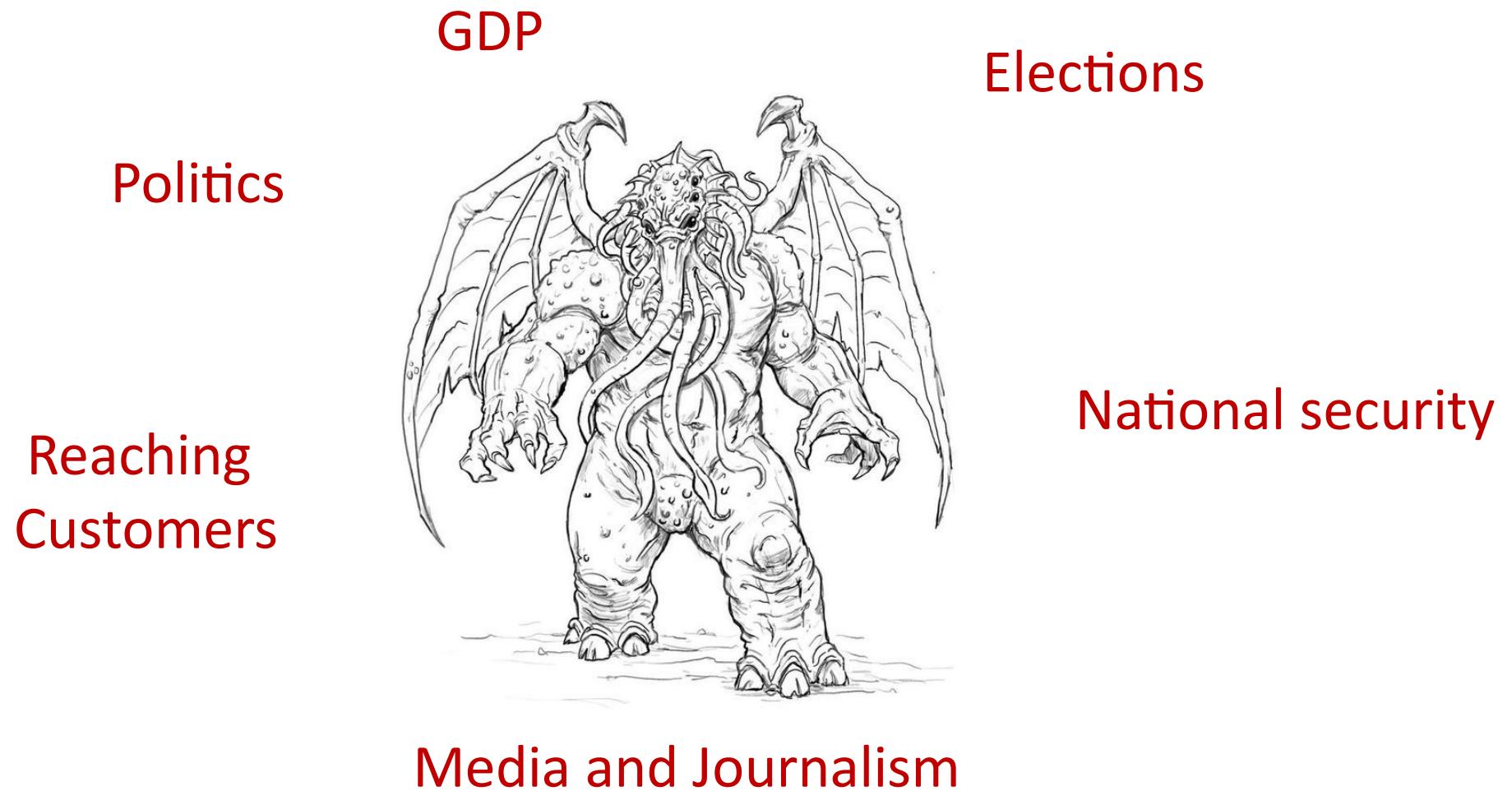


- Information Overload
- Addiction
- Doomscrolling
- Influencer Culture
- Sexualization
- Shortened attention spans
- Polarization
- Bots, DeepFakes
- Fake news

Engagement
maximalization



Engagement maximization



Second contact with AI – Generative AI

AI fields before

- Computer Vision
- Speech recognition
- Robotics
- Music Generation
- Speech Synthesis
- Image generation

2017

AI fields after

- Language processing
- Generative Large Language Multi-modal Modell
- GLLMM



Transformer model



Godfather of AI

'Godfather of AI' Geoffrey Hinton quits Google and warns over dangers of misinformation

“I console myself with the normal excuse: If I hadn’t done it, somebody else would have.”



Dr. Geoffrey Hinton



Chat GPT mistake



One car travelling to Portland at 80 miles per hour, and travels a distance of 14 miles.

Another car starts at the same point and travelling tha same route at 40 miles per hour. How far does the second car travel?



To find out how far the second car travels, you can use the formula:

Distance = Speed x Time

First, let's find out how long it takes for the first car to travel 14 miles at 80 miles per hour:

Time for first car = Distance / Speed = 14 miles / 80 mph = 0.175 hours

Now, you can use this time to calculate how far the second car travels at 40 miles per hour:

Distance for second car = Speed x Time for second car = 40 mph x 0.175 hours = 7 miles

So, the second car travels a distance of 7 miles.



Optional Homework #2 (10 points)

- Chat with Chat GPT
- Find a mistake and document it.



Link:

<https://chat.openai.com/auth/login>



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Thank you for your attention!