AI + AI + AI

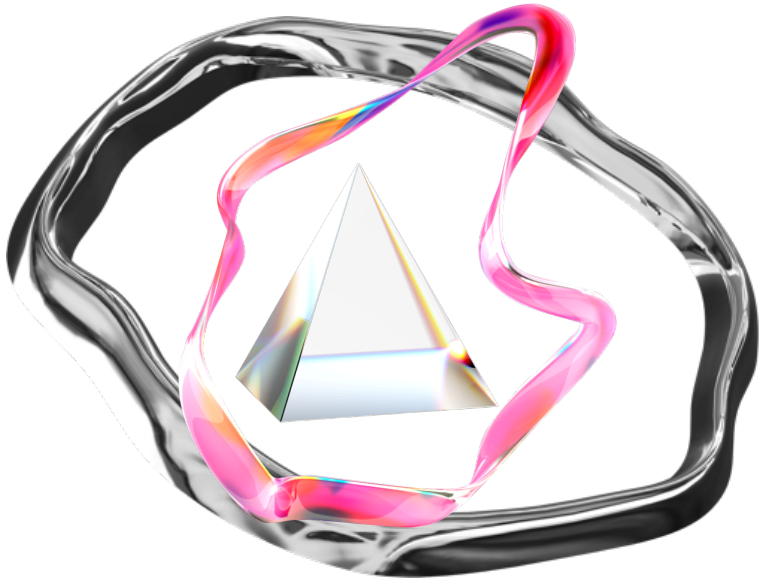
AI MODULE X SCREENS

enrique.encinas @aho.no

AIAIAINEWS

3 WEEKS

13th March -> 31st March



HTTPS://GITHUB.COM/ENRIQUEKI/AIAIAI

+

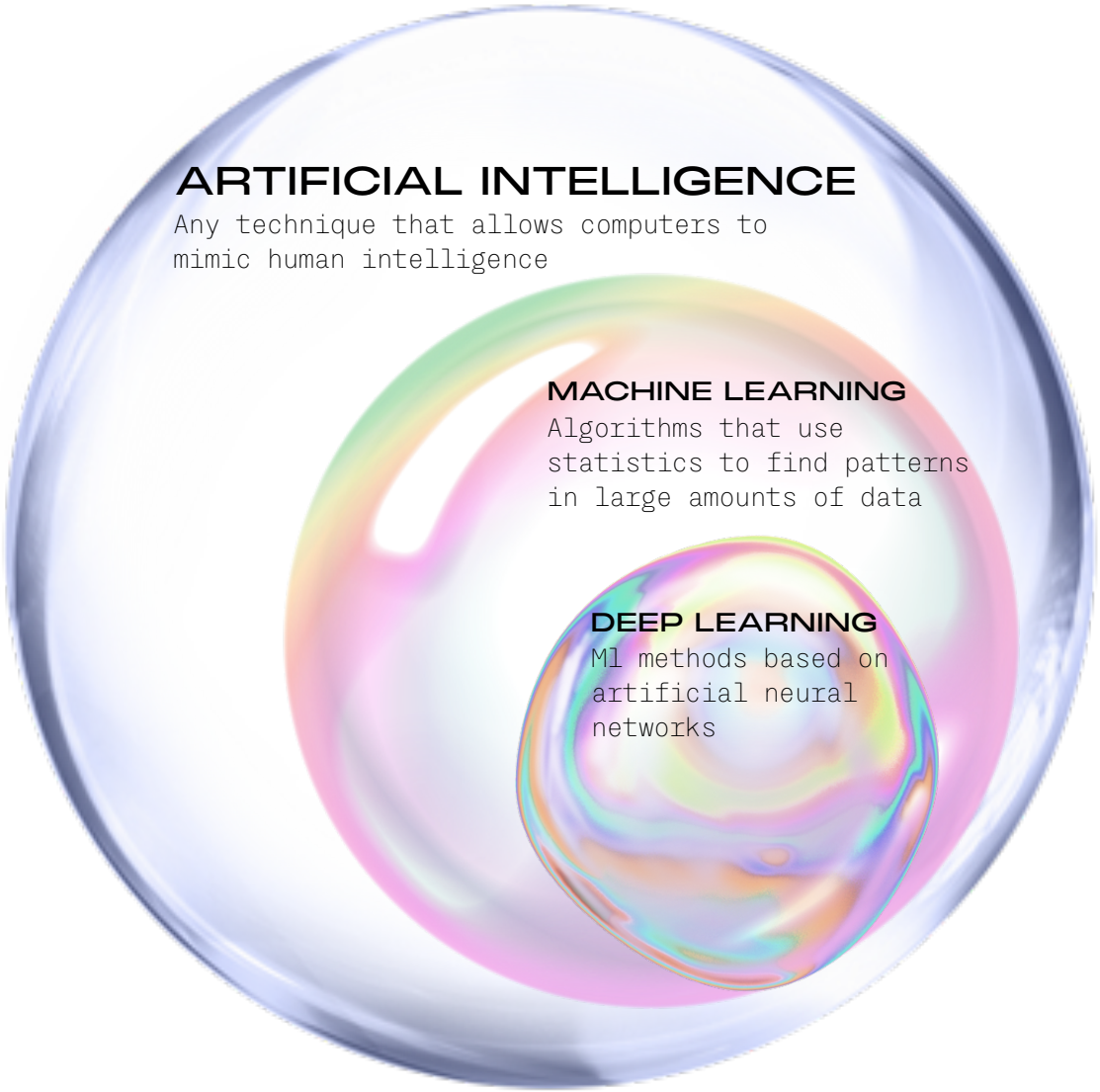
SLACK

WEEK #3

22nd March -> 24th March

AI X NEXT WEEK

:: AI ETHICS + SPECULATIVE AI DESIGN

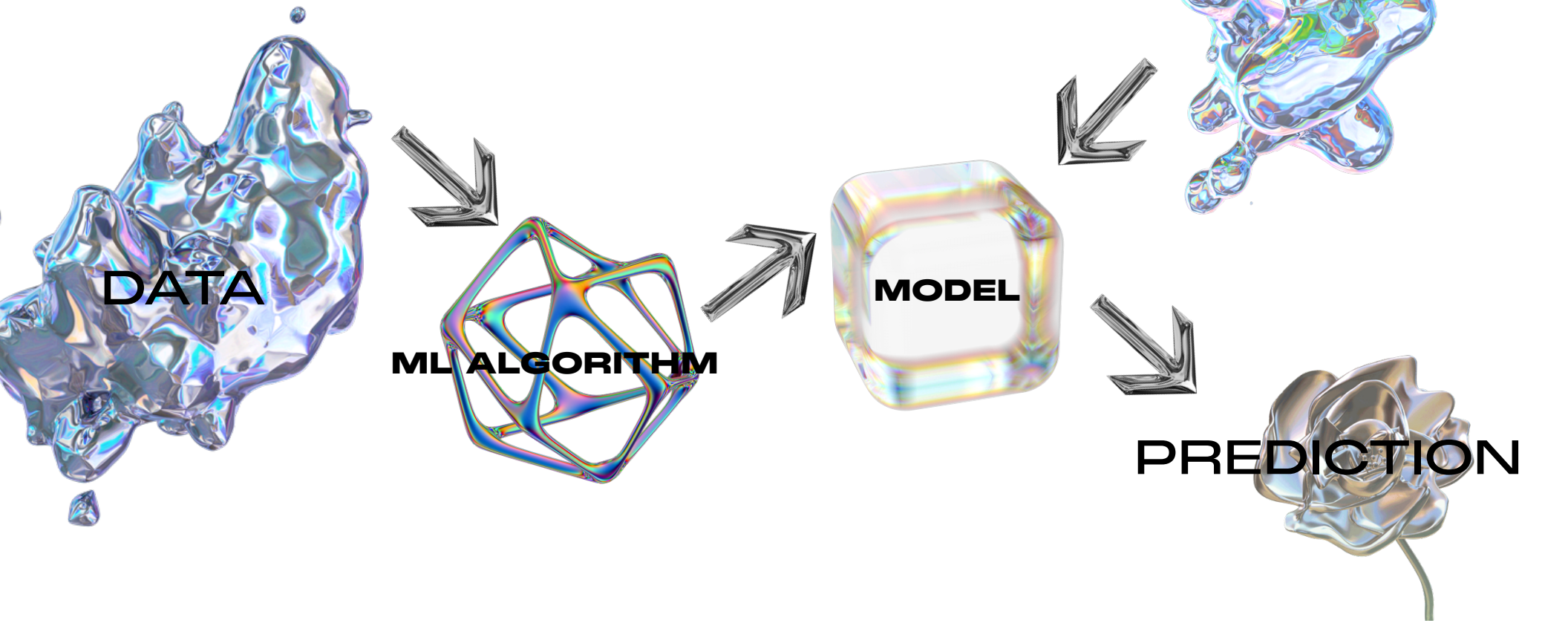

ARTIFICIAL INTELLIGENCE
Any technique that allows computers to mimic human intelligence
MACHINE LEARNING
Algorithms that use statistics to find patterns in large amounts of data
DEEP LEARNING
Ml methods based on artificial neural networks

AI WHAT?


AI ETHICS

https://icarus.kumu.io/fluxus-landscape

ML MODELS



DO YOU KNOW ANY OTHER HEADLINER?

Behind the scenes of TV's first deep fake comedy: 'None of it is illegal. Everything is silly'

Fake it till you make it ... 'Stormzy' and 'Harry Kane'. Photogra

Is that Harry Kane and Stormzy arguing over a bi
tile? This new, CGI-assisted comedy is astonishir
but is it ethically OK?

'There is no standard': investigation finds AI algorithms object f women's bod es

Guardian exclusive: AI tools rate photos of women as more sexually suggestive than those of men, especially if nipples, pregnant bellies or exercise is involved

This story was produced in partnership with the Pulitzer Center's AI Accountability Network

by Gianluca Mauro and Hilke Schellmann

The People Onscreen Are Fake. The Disinformation Is Real.

Give this article 457

By Adam Satariano and Paul Mozur

Adam Satariano, based in London, and Paul Mozur, based in Seoul, are tech correspondents who report internationally about online disinformation.

7, 2023

Leer en español

In one video, a news anchor with perfectly combed dark hair and a stubbly beard outlined what he saw as the United States' shameful lack of action against gun violence.

60 MINUTES OVERTIME

ChatG PT and arge ar guag model bias

60 MINUTES Overtime

https://haveibeentrained.com/

THEORY?

“A lot of our ideas about AI come from science fiction. Welcome to everything in Hollywood. It’s the Terminator. It’s Commander Data from Star Trek... It is the robots that take over the world and start to think like human beings. And it’s all totally imaginary. What we actually have is...narrow AI and narrow AI is just math. We’ve imbued computers with all of this magical thinking.”

Meredith Broussard. Author of Artificial Unintelligence.

“If you’re thinking about data and artificial intelligence, in many ways data is destiny. Data is what we’re using to teach machines how to learn different kinds of patterns. So if you have largely skewed data sets that are being used to train these systems, you can also have skewed results. So this is when you think of AI, it’s forward looking, but AI is based on data and data is a reflection of our history. The past dwells within our algorithms.”

Joy Buolamwini. Founder of the Algorithmic Justice League.

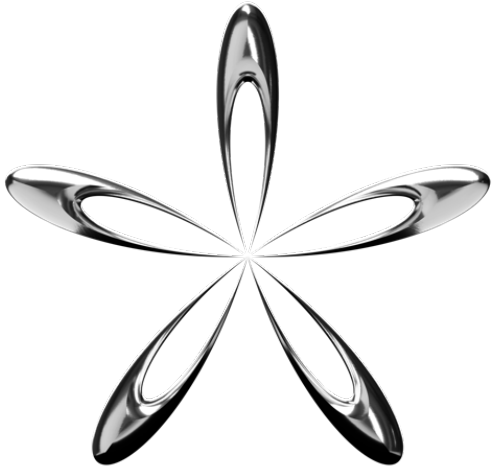
“Machine learning. It’s a scoring system that scores the probability of what you’re about to do. Are you going to pay back this loan? Are you going to get fired from this job? What worries me the most about AI or whatever you want to call it, algorithms, is power because it’s really all about who owns the f*****g code. The people who own the code then deploy it on other people and there is no symmetry there.”

Cathy O’Neill. Author of Weapons of Math Destruction.

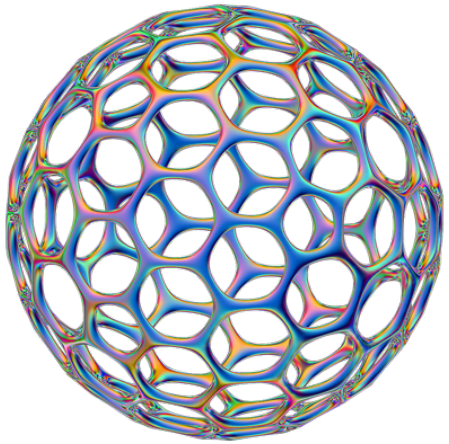
COMPLEXITY?

TYPES OF ML

SUPERVISED LEARNING



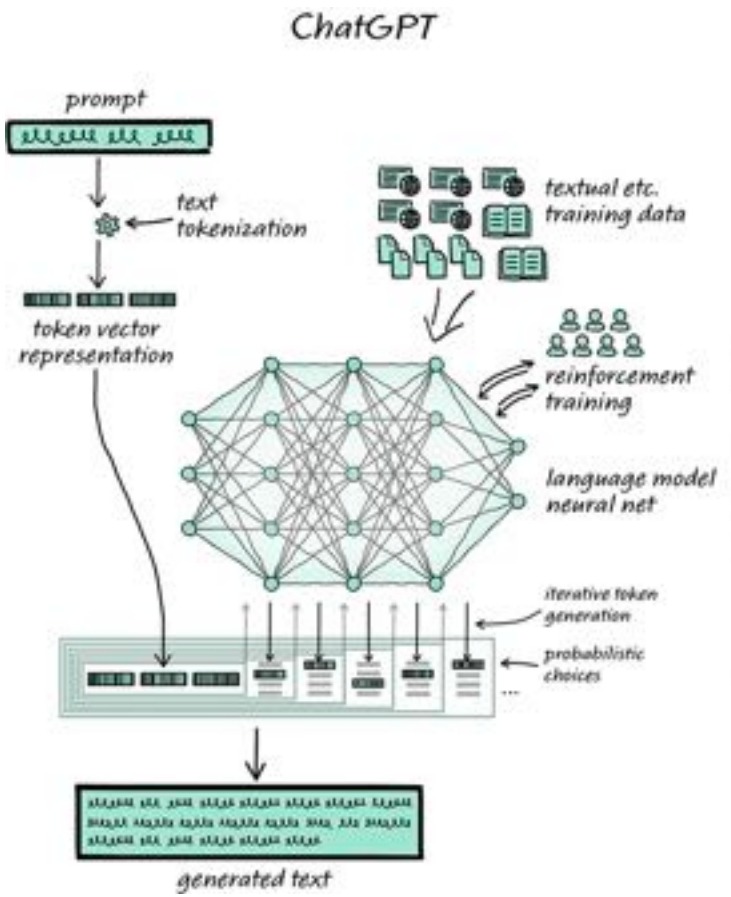
UNSUPERVISED LEARNING



REINFORCEMENT LEARNING

USE CASES :

https://becominghuman.ai/a-primer-of-29-interactions-for-ai-866164ab12f0



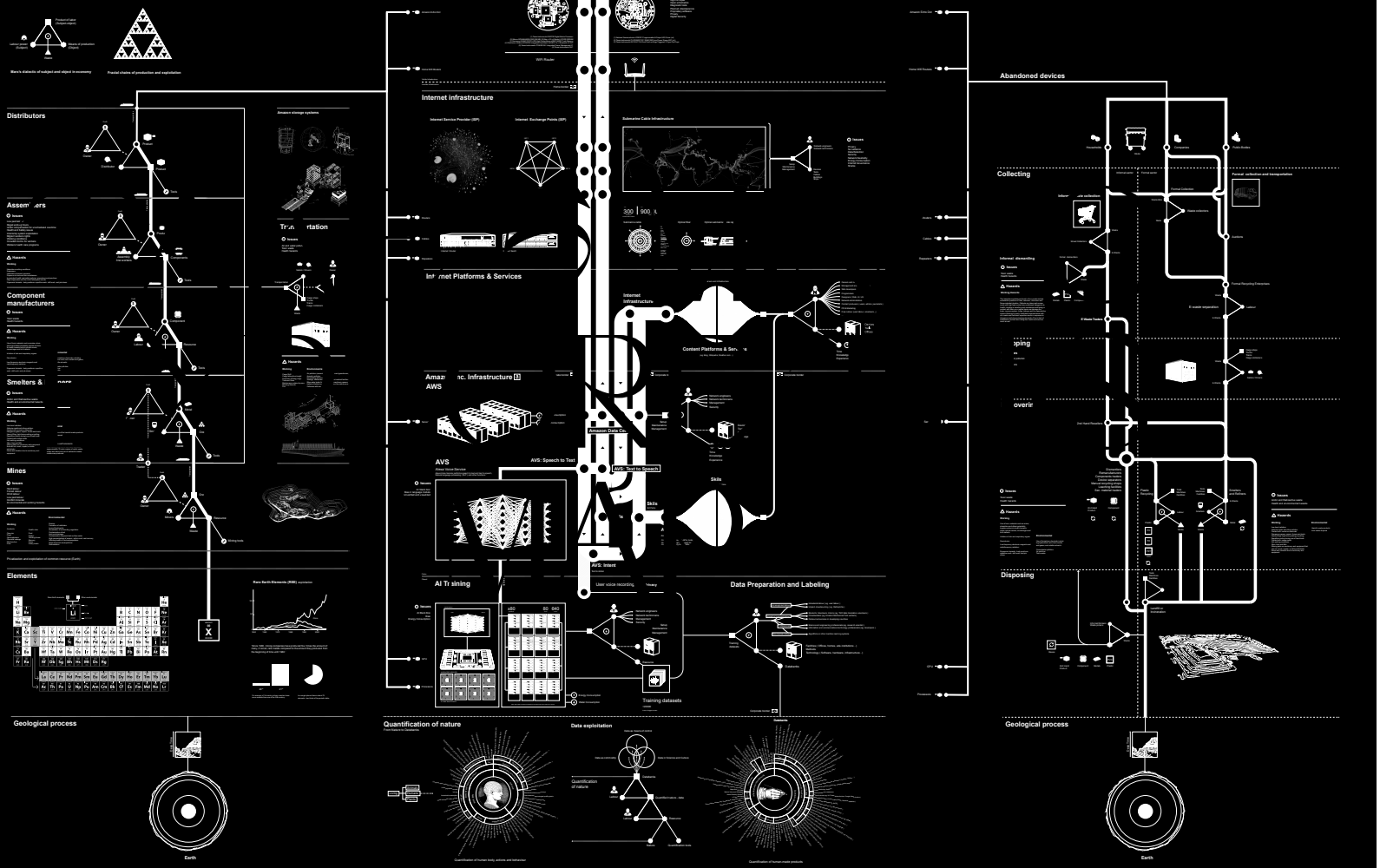
https://writings.stephenwolfram.com/2023/01/wolframalpha-as-the-way-to-bring-computational-knowledge-superpowers-to-chatgpt/

Currently, the research and development of AI is primarily in the hands of big technology corporations—who have made astonishing profits off the technology. The U.S. government has taken a mostly handsoff approach to influencing or regulating AI development. With the increasing use of commercial AI applications in the areas of healthcare, law enforcement, employment, and elections, however, there is a growing public awareness of the potential risks of leaving the use of AI technology unmonitored.

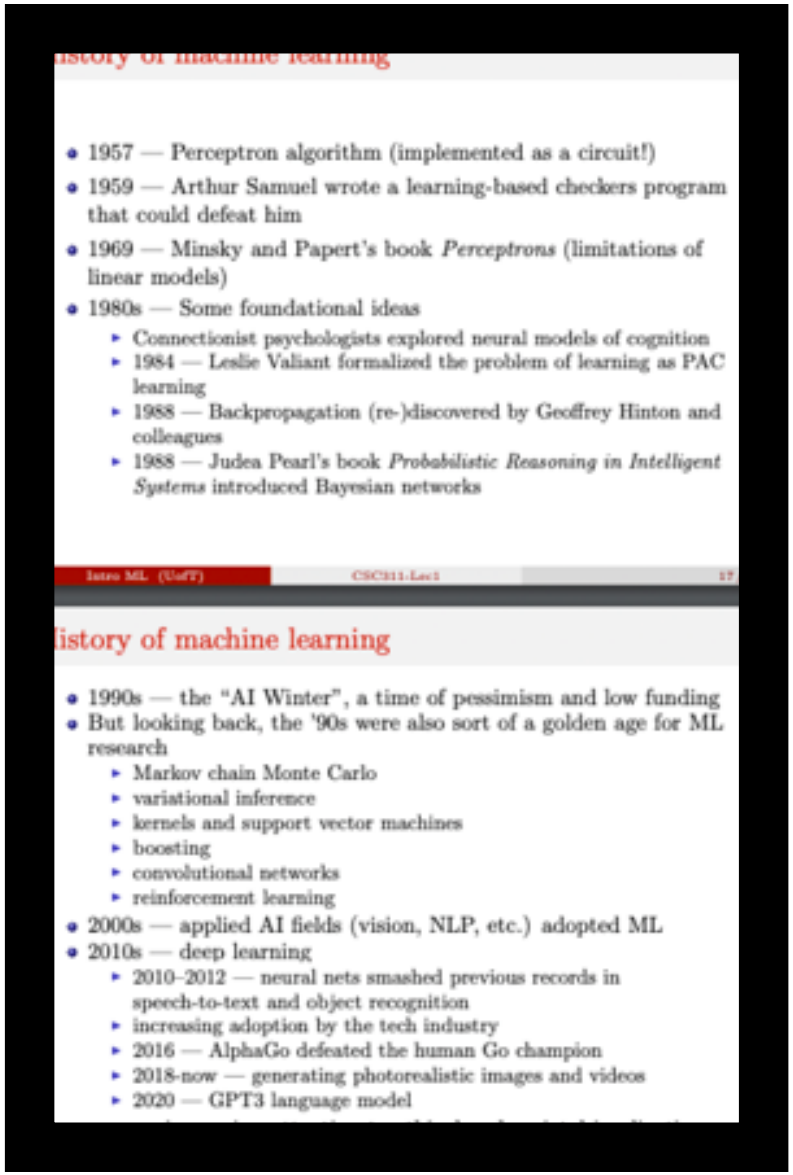
Cathy O'Neill. Author of Weapons of Math Destruction.

Anatomy of an AI system

An anatomical case study of the Amazon echo as a artificial intelligence system made of human labor



HISTORY?



ONE HISTORY OF AI AMONG MANY

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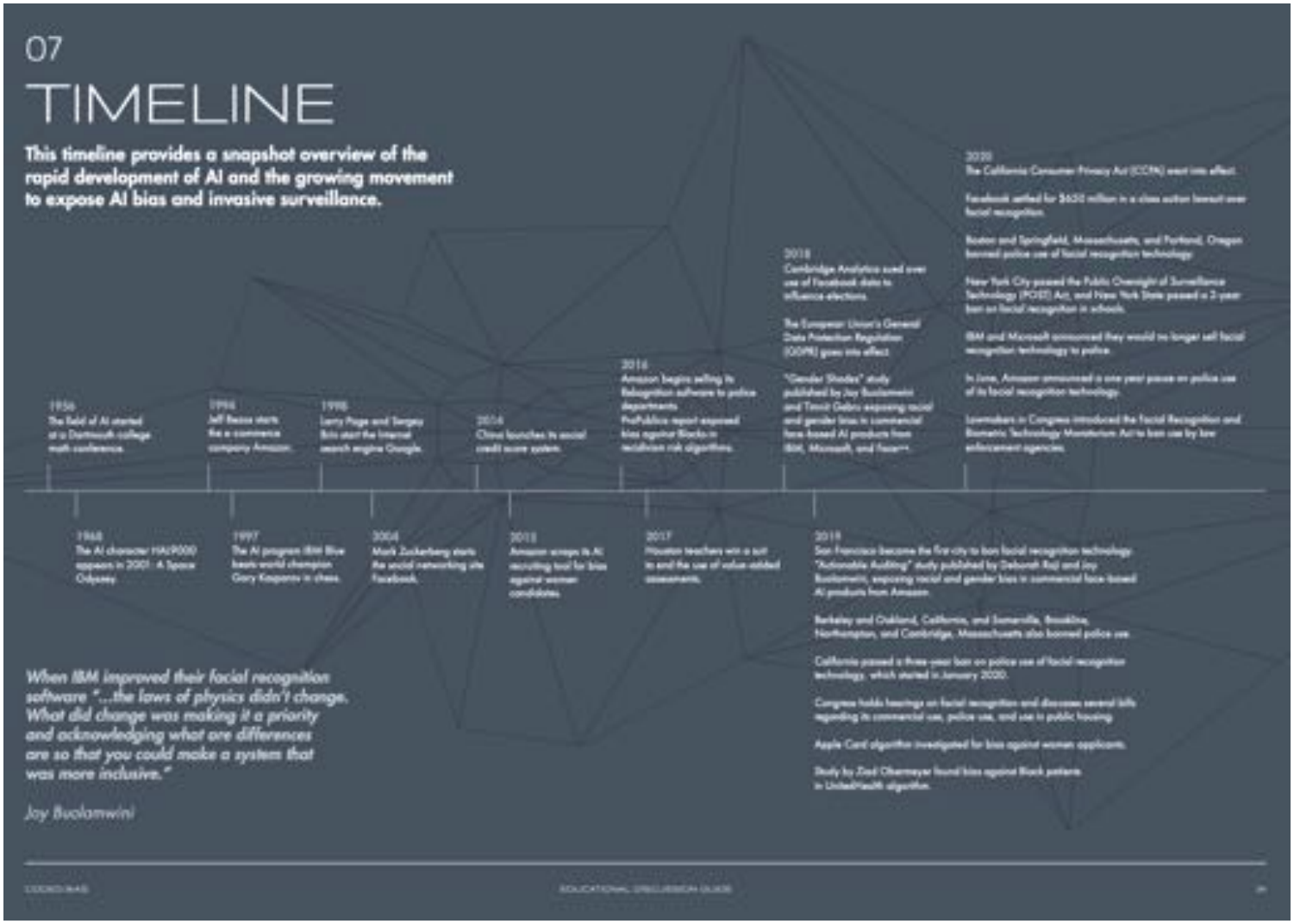


ALGORITHMIC JUSTICE

- That people have agency and control over how they interact with an AI system, which requires knowing how systems are used and what their potential harms might be.

- That AI secure affirmative consent from people, such as with an opt-in request, on how or whether they interact with an AI system. No one should be penalized for opting out.

- To respect human life, dignity, and rights, AI requires centering justice by prohibiting certain corporate and government uses.

- Meaningful transparency. For an AI system to demonstrate meaningful transparency it must provide an explanation of how the system works, how it was designed, and for what specific purpose—as well as its known limitations.

- Because it is constantly evolving, AI requires continuous oversight by independent third parties and laws that require companies and government agencies deploying AI to meet minimum reporting requirements.

- That AI provides people who have been harmed with access to remedy, meaning that there is a working pathway for people to contest and correct a harmful decision made by artificial intelligence.

https://www.ajl.org/

The image above is an excerpt from "Distilling the Harms of Automated Decision-Making" by the Future of Privacy Forum Report.

Worksheet: UX of AI challenges

1. Explainability - How will we help our user understand certain outcomes?	2. Managing expectations - How will we establish realistic expectations?	3. Graceful failure & accountability - How will we design for trust in case of failure?	User Trust & Transparency
4. User feedback - How will your user provide feedback to the system?	5. User autonomy - How will the user be able to customize their experience?	6. Data privacy & security - How will you collect, store, and handle data?	User Autonomy & Control
7. Computational translation - How will you turn needs into parameters?	8. Bias & inclusivity - How will you prevent bias and guard inclusivity?	9. Ethics & (un)intended consequences - How will you look out for negative and positive impact?	Value Alignment
10. Which other (design) challenges do you foresee?			

https://medium.com/aixdesign/ux-challenges-for-ai-ml-products-3-3-value-alignment-e0b6b22ad9

AI & Ethics: Collaborative Activities for Designers

OUR FOCUS

Ethics By Design and Ethics of Use Approaches for Artificial Intelligence

Version 1.0
25 November 2021

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/ethics-by-design-and-ethics-of-use-approaches-for-artificial-intelligence_he_en.pdf

ETHICAL PRINCIPLES

1. Respect for Human Agency: human beings must be respected to make their own decisions and carry out their own actions. Respect for human agency encapsulates three more specific principles, which define fundamental human rights: autonomy, dignity and freedom.

2. Privacy and Data governance: people have the right to privacy and data protection and these should be respected at all times;

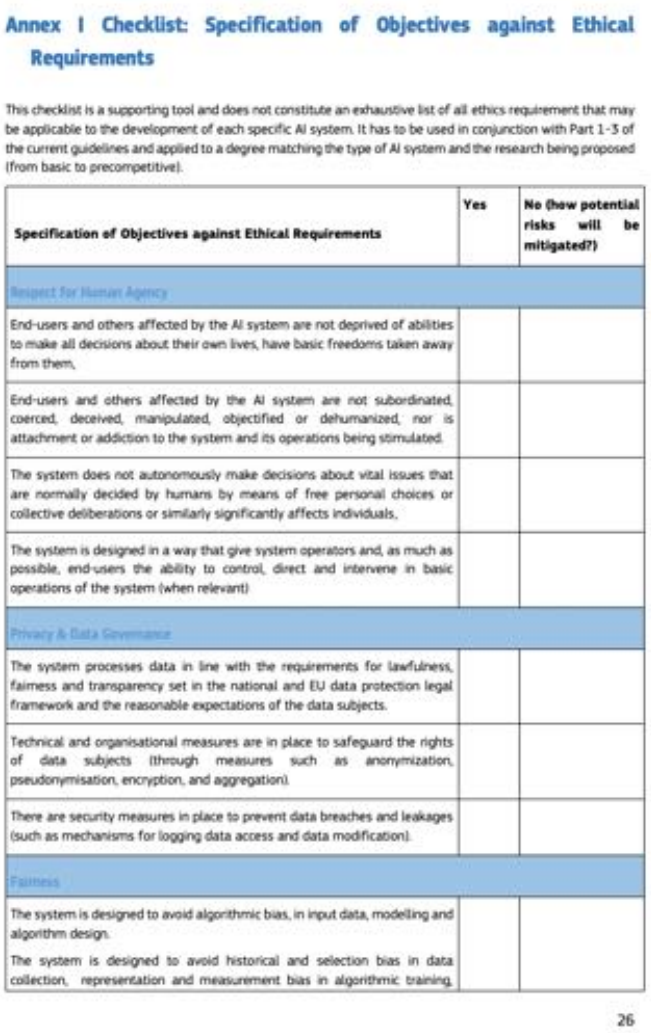
3. Fairness: people should be given equal rights and opportunities and should not be advantaged or disadvantaged undeservedly;

4. Individual, Social and Environmental Well-being: AI systems should contribute to, and not harm, individual, social and environmental wellbeing;

5. Transparency: the purpose, inputs and operations of AI programs should be knowable and understandable to its stakeholders;

6. Accountability and Oversight: humans should be able to understand, supervise and control the design and operation of AI based systems, and the actors involved in their development or operation should take responsibility for the way that these applications function and for the resulting consequences.

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/ethics-by-design-and-ethics-of-use-approaches-for-artificial-intelligence_he_en.pdf



Annex I Checklist: Specification of Objectives against Ethical Requirements

This checklist is a supporting tool and does not constitute an exhaustive list of all ethics requirement that may be applicable to the development of each specific AI system. It has to be used in conjunction with Part 1-3 of the current guidelines and applied to a degree matching the type of AI system and the research being proposed (from basic to precompetitive).

Specification of Objectives against Ethical Requirements	Yes	No (how potential risks will be mitigated?)
Respect for Human Agency		
End-users and others affected by the AI system are not deprived of abilities to make all decisions about their own lives, have basic freedoms taken away from them,		
End-users and others affected by the AI system are not subordinated, coerced, deceived, manipulated, objectified or dehumanized, nor is attachment or addiction to the system and its operations being stimulated.		
The system does not autonomously make decisions about vital issues that are normally decided by humans by means of free personal choices or collective deliberations or similarly significantly affects individuals.		
The system is designed in a way that give system operators and, as much as possible, end-users the ability to control, direct and intervene in basic operations of the system (when relevant)		
Privacy & Data Governance		
The system processes data in line with the requirements for lawfulness, fairness and transparency set in the national and EU data protection legal framework and the reasonable expectations of the data subjects.		
Technical and organisational measures are in place to safeguard the rights of data subjects (through measures such as anonymization, pseudonymisation, encryption, and aggregation).		
There are security measures in place to prevent data breaches and leakages (such as mechanisms for logging data access and data modification).		
Fairness		
The system is designed to avoid algorithmic bias, in input data, modelling and algorithm design. The system is designed to avoid historical and selection bias in data collection, representation and measurement bias in algorithmic training.		

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HANDS ON
ETHICS

THE ETHICS/DESIGN ASSESMENT

45.min - In pairs, use the Checklist here:

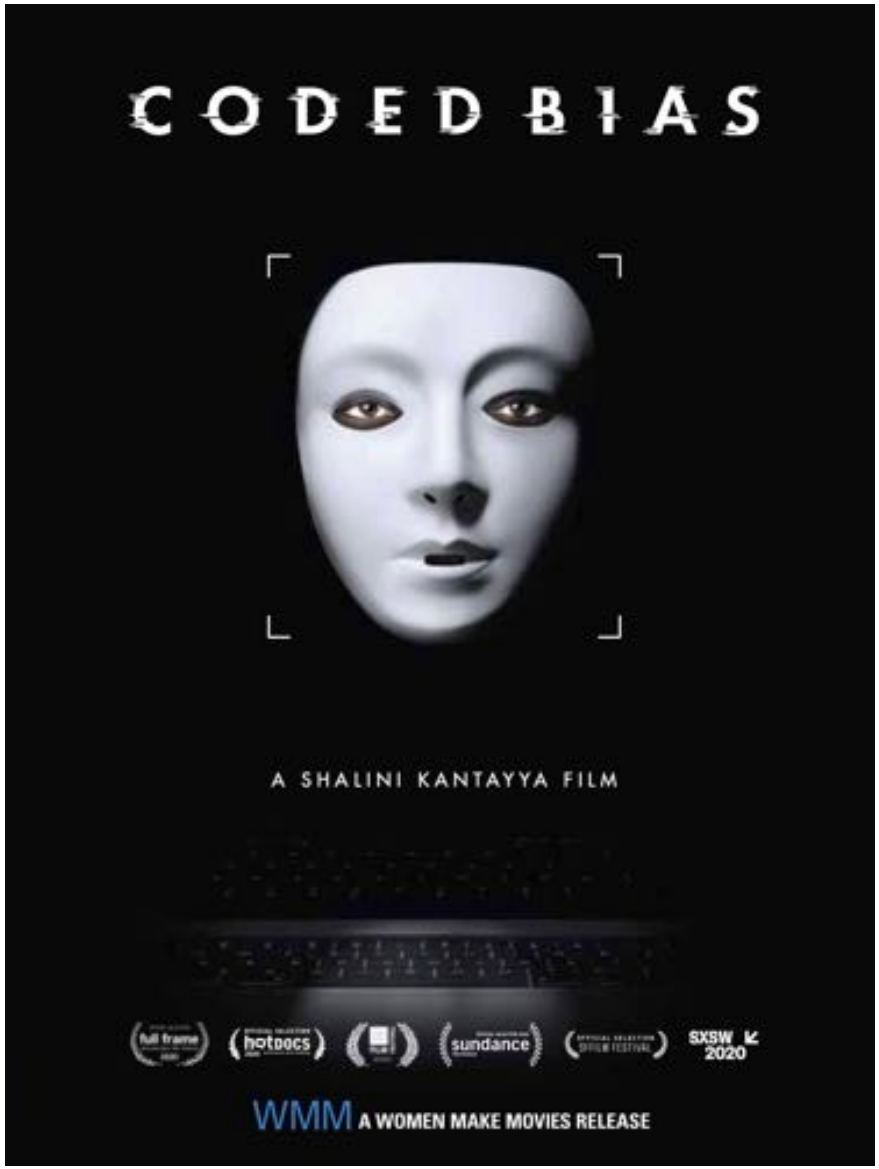
https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/ethics-by-design-and-ethics-of-use-approaches-for-artificial-intelligence_he_en.pdf

To evaluate the case described here:

https://www.wired.com/story/welfare-state-algorithms/

30.min - Find another pair and share your work.


WATCH PARTY!


CODED BIAS
A SHALINI KANTAYYA FILM
full frame
hotdocs
sundance
SXSW 2020
WMM A WOMEN MAKE MOVIES RELEASE

AI + AI + AI

AI MODULE X SCREENS

TAKK!

enrique.encinas @aho.no