

Data justice Data ethics

Examples:

Strava's heat map revealed military bases around the world and exposed soldiers to real danger – https://www.nytimes.com/2018/01/29/world/middleeast/strava-heat-map.html

Datasheets for Datasets - https://arxiv.org/abs/1803.09010

Ethical Debt https://www.wired.com/story/opinion-ethical-tech-starts-with-addressing-ethical-debt/

Palantir - https://www.theverge.com/2018/2/27/17054740/palantir-predictive-policing-tool-new-orleans-nopd

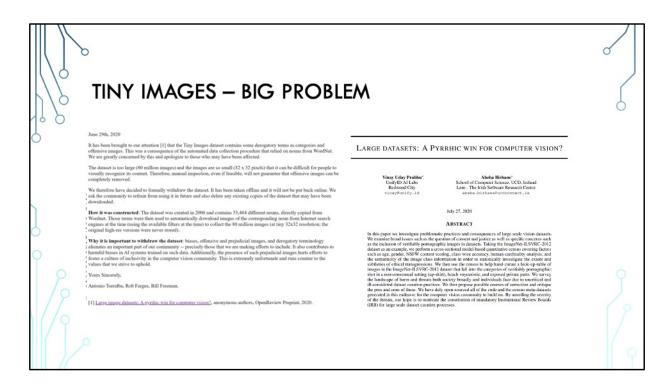
https://gizmodo.com/uk-official-says-its-too-expensive-to-delete-all-the-mu-1825388626

MIT https://www.technologyreview.com/2019/05/28/65748/ai-algorithms-liability-human-blame/

Algorithmic Justice League https://www.ajl.org/

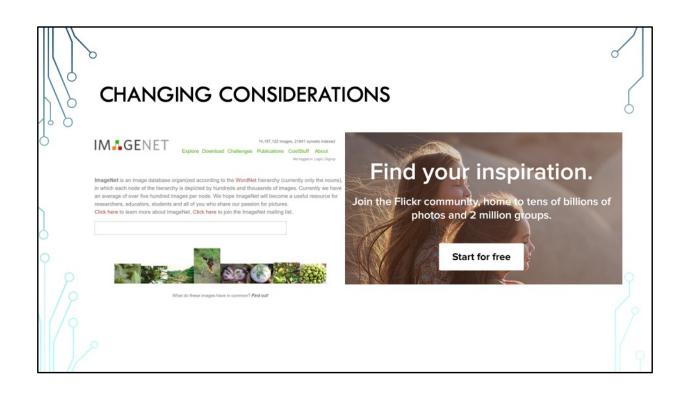
Design Justice https://design-justice.pubpub.org/

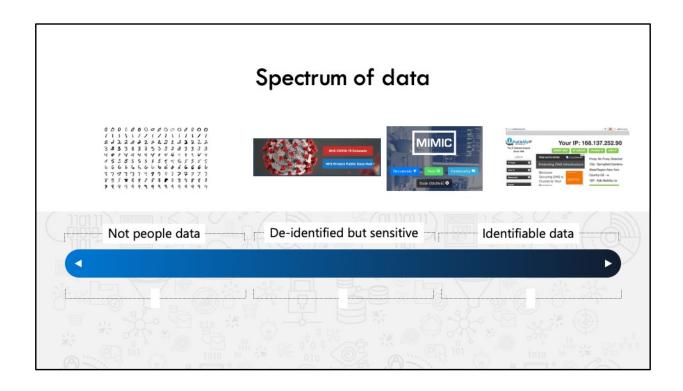
https://datajusticelab.org/



Long used benchmark datasets can turn into challenging datasets.

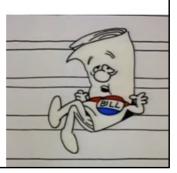
80 Million Tiny Images paper - https://cs.nyu.edu/~fergus/papers/tiny.pdf Letter taking down dataset - <a href="https://groups.csail.mit.edu/vision/TinyImages/Paper: "Large datasets: A Pyrrhic win for computer vision?" https://arxiv.org/abs/2006.16923







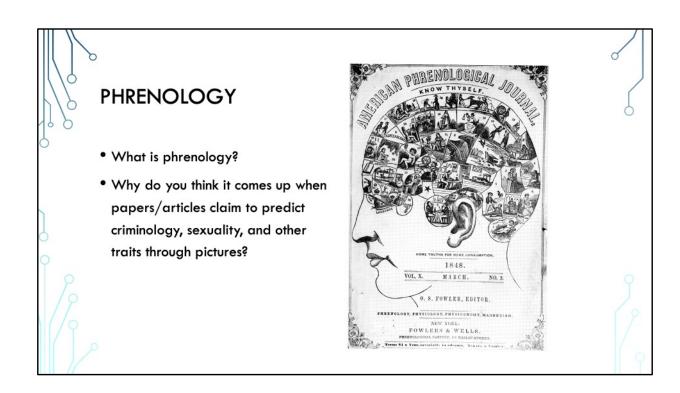
- Federal Education Rights Privacy Act (FERPA)
- Health Information Portability & Accountability Act (HIPAA)
- Gramm-Leach-Bliley Act (GLBA) Article V
- Children's Online Privacy Protection Act (COPPA)
- Federal Trade Commission Act (Article 5)



ALWAYS ASK YOURSELF THE HARD QUESTIONS

- Should we build it?
- Who are the stakeholders?
- Who will this help and how?
- Who might this hurt and how?
- Never forget: "Essentially, all models are wrong, but some are useful." George Box (sort of)





FACIAL TRACKING

- Can this be done responsibly?
- Relevant research Prof. Barrett
- Microsoft Research: Guidelines for Assessing and Minimizing Risks of Emotion Recognition Applications



https://cos.northeastern.edu/people/lisa-barrett

https://journals.sagepub.com/eprint/SAUES8UM69EN8TSMUGF9/full

https://news.northeastern.edu/2021/08/20/you-cant-determine-emotion-from-

someones-facial-expression-and-neither-can-ai/

https://www.microsoft.com/en-us/research/publication/guidelines-for-assessing-

and-minimizing-risks-of-emotion-recognition-applications/

https://www.microsoft.com/en-

us/research/uploads/prod/2021/07/camera ready share.pdf







Privacy-Preserving Contact Tracing

Across the world, governments, and health authorities are working together to find solutions to the COVID-19 pandemic, to protect people and get society back up and running. Software developers are contributing by crafting technical tools to help combat the virus and save lives. In this spirit of collaboration, Google and Apple are announcing a joint effort to enable the use of Bluetooth technology to help governments and health agencies reduce the spread of the virus, with user privacy and security central to the design.

As part of this partnership Google and Apple are releasing draft documentation for an Exposure Notification system in service of privacy-preserving contact tracing:

Exposure Notification - Bluetooth Specification

Exposure Notification - Cryptography Specification

Exposure Notification - Framework API

Exposure Notification - Frequently Asked Questions

All of us at Apple and Google believe there has never been a more important moment to work together to solve one of the world's most pressing problems. Through close cooperation and collaboration with developers, governments, and public health providers, we hope to harness the power of technology to help countries around the world slow the spread of COVID-19 and accelerate the return of everyday life.

https://covid19.apple.com/contacttracing

https://www.wired.com/story/apple-google-contact-tracing-strengths-weaknesses/

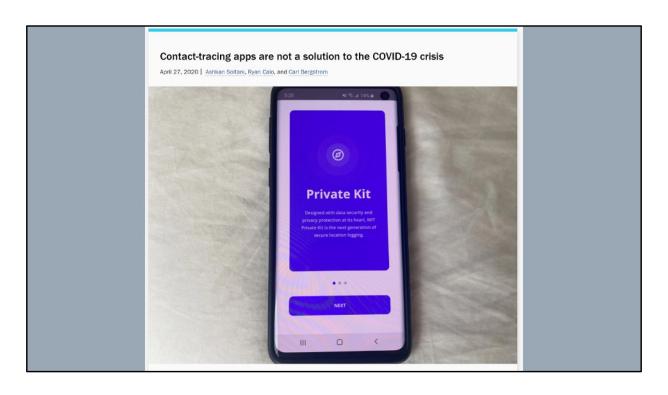
https://www.technologyreview.com/2020/11/20/1012325/do-digital-contact-tracing-

apps-work-heres-what-you-need-to-know/



https://twitter.com/doctorow/status/1296248163653660672

https://threader.app/thread/1296248163653660672



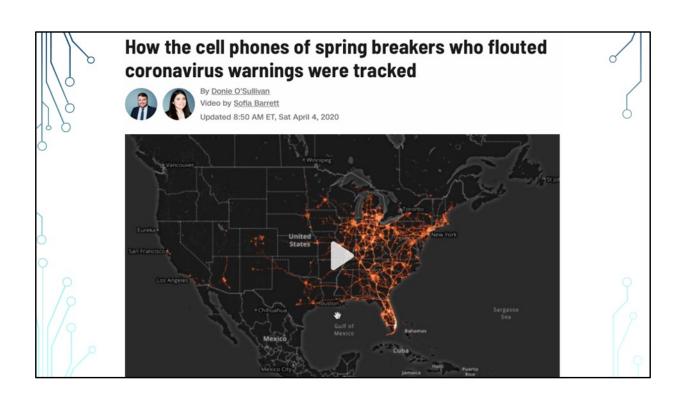
https://www.brookings.edu/techstream/inaccurate-and-insecure-why-contact-tracing-apps-could-be-a-disaster/



https://www.geekwire.com/2020/wa-notify-covid-exposure-app/



https://www.geekwire.com/2020/covid-19-exposure-notification-apps-become-widespread-will-make-difference/





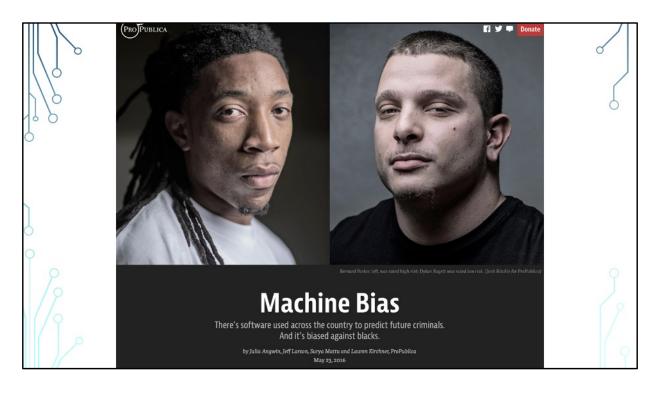


https://www.technologyreview.com/2016/06/24/159118/why-we-should-expect-algorithms-to-be-biased/

https://www.wsj.com/articles/algorithms-arent-biased-but-the-people-who-write-

them-may-be-1476466555

https://virginia-eubanks.com/books/



https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing

https://www.propublica.org/article/how-we-analyzed-the-compas-recidivism-algorithm

NORTHEPOINTE'S COMPAS

Correctional Offender Management Profiling for Alternative Sanctions

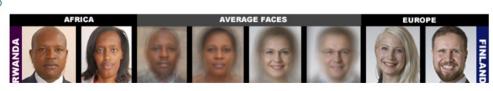
- What do you think it was design to do?
- Does the data it's using make sense for COMPAS' purpose?



ACCESS TO TECHNOLOGY

- Do potholes as an ethics issue seem innocuous?
- What could Baltimore have done differently?





Proceedings of Machine Learning Research 81:1-15, 2018

Conference on Fairness, Accountability, and Transparency

Gender Shades: Intersectional Accuracy Disparities in Commercial Gender Classification*

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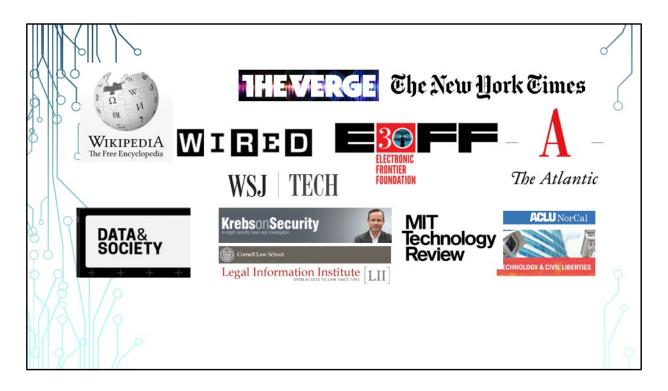
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Editors: Sorelle A. Friedler and Christo Wilson



https://partnershiponai.org/about-ml-2021/



New York Times - Kash Hill

Https://www.eff.org

https://www.theatlantic.com

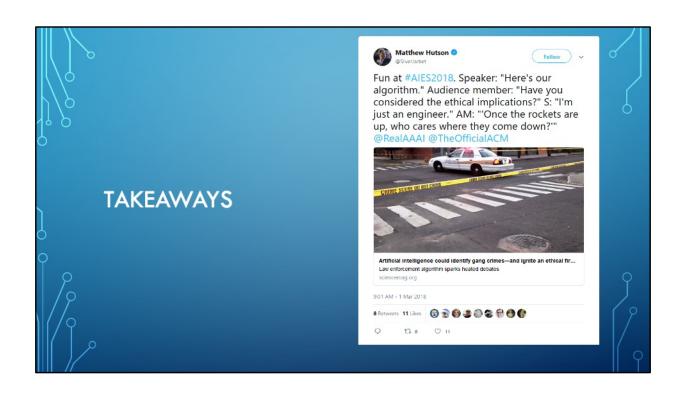
https://www.wsj.com

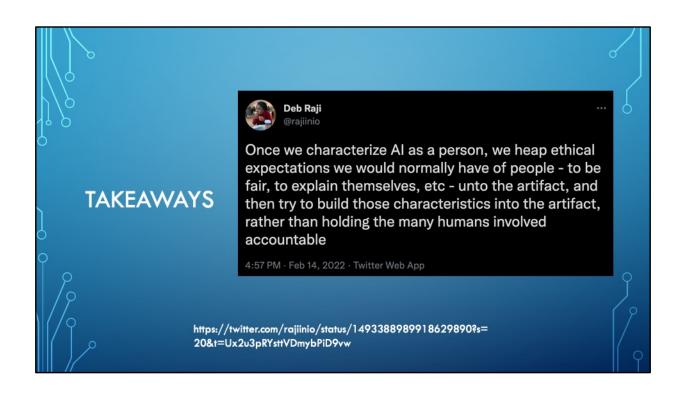
https://www.aclunc.org/issue/technology-civil-liberties

https://datasociety.net/ https://www.wired.com/ https://krebsonsecurity.com/

https://www.law.cornell.edu/uscode/text

https://www.technologyreview.com/





Responsibility in AI Systems & Experiences (RAISE) at the University of Washington presents:



Casey Fiesler

Data Is People: Unintended Consequences in AI and Data Science

Friday February 25, 2022, 9-10am PT Join: https://washington.zoom.us/j/94636255672

Abstract: Hardly a day passes without a new technology ethics scandal in the news, and many of them touch on AI, machine learning, and data science—from privacy violations in data collection to biased data feeding algorithms to unexpected uses of research. This talk builds on two threads of my research: (1) empirical work towards best practices for research ethics in data science, including understanding possible harms of using public data without consent; and (2) ethical debt (as a parallel to technical debt) in technology design and research as the precursor to the types of unintended consequences that underly many ethical controversies. I will suggest strategies for being more forward-thinking and for remembering the people present in data.