

When It Is Fundamentally Dubious

- Some uses of AI and analytics are fundamentally dubious
- In such cases, the ethical question of such use at all arises

Incomplete & crude but useful breakdown

Genuine, rapid progress

- Shazam, reverse img search
- Face recognition
- Med. diagnosis from scans
- Speech to text
- Deepfakes

Perception

Imperfect but improving Fundamentally dubious

- Spam detectionCopyright violation
- Automated essay grading
- Hate speech detection
- Content recommendation

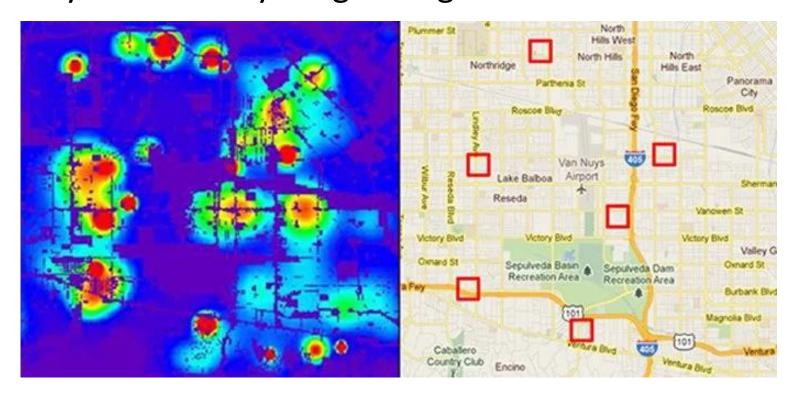
- · Predicting recidivism
- Predicting job success
- Predictive policing
- Predicting terrorist risk
- Predicting at-risk kids

Automating judgment

Predicting social outcomes

Predicting Criminals

"...puts students and families at risk of being unfairly targeted before they've done anything wrong"

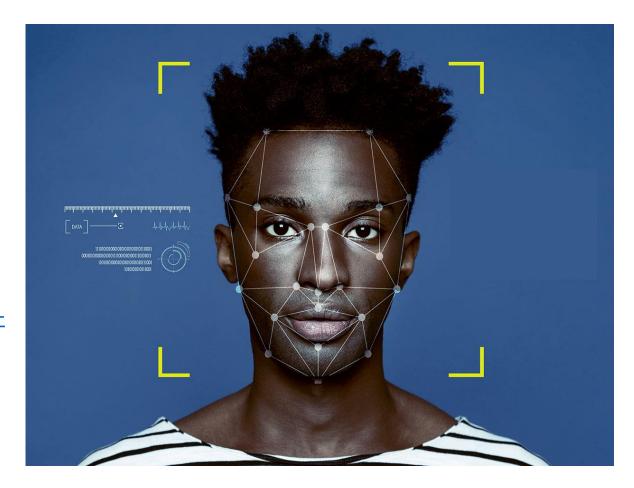


https://www.smithsonianmag.c om/innovation/artificialintelligence-is-now-usedpredict-crime-is-it-biased-180968337/ "Historical data from police practices, critics contend, can create a feedback loop through which algorithms make decisions that both reflect and reinforce attitudes about which neighborhoods are 'bad' and which are 'good.""

Racial Profiling

It is arguable that there is no ethical application of analytics to identify specific races for special treatment.

https://spectrum.ieee.org/do-you-have-the-right-complexion-for-facial-recognition#toggle-gdpr
Biased facial recognition system
disproportionately labels minority UCLA students
and faculty as criminals



Identity Graphs



Mary Smith at Home

Individual ID: Household ID: 123123123123 456789101112

First Name: Middle Name: Last Name: Age: Date of Birth:

Smith 41 5/1/1979

Mary

Home Address: 2345 Ave C

Papillion, NE 68046

Family:

4 Adults, 2 Children

Married

Email(s):

Mary.Smith@gmail.com MSmith123@yahoo.com

Cell Phone:

(111) 123 - 4567

Registered Voter:

Interests:

Shopping Cooking Traveling Reading Science





Mary Smith at Work

Contact Title: Vice President

Contact Email: Mary.Smith@KarensFireside.com

Contact Gender: Female

IG Business ID: 696115559 Contact ID: 123667894123

Business Name: Karen's Fireside Inc.

Address: 1214 N Monroe St

Papillion, NE 68046-20146 (402) 592-4413

Phone: (402) 592-44

Hours: Daily 9am -5pm

Website: http://www.karensfireside.com

Social Media: https://www.facebook.com/karens-

fireside-event-venue-1774143466165459

SICs: Banquet Rooms, Halls &

Auditoriums, Wedding & Reception

Sites, etc.

Employee Size:

Location Sales Volume: \$407.000

https://www.data-axle.com/resources/blog/solving-the-identity-graph-gap-through-robust-identity-resolution/

Autonomous Weapons

Examples:

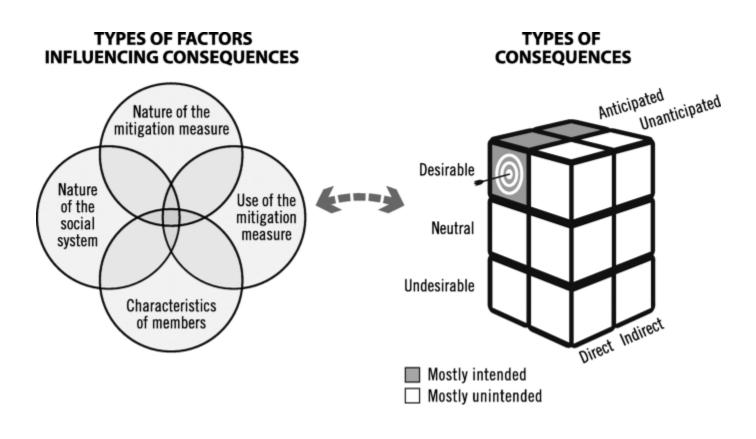
- Armed robot 'dogs' being used as security guards
- Autonomous drones being used in armed conflict

https://www.thedefensepost.com/2021/10/ 13/robot-dog-assault-rifle/

https://www.popularmechanics.com/military/weapons/a36559508/drones-autonomously-attacked-humans-libya-united-nations-report/



When We Don't Know What the Consequences Will Be



For example, the suggestion that colleges should put smart speakers in student dormitories - "we simply have no idea what long-term effect having conversations recorded and kept by Amazon might have on their futures."

https://bmcmedresmethodol.biomedcentral.com/articles/10.1186/s12874-020-01200-x