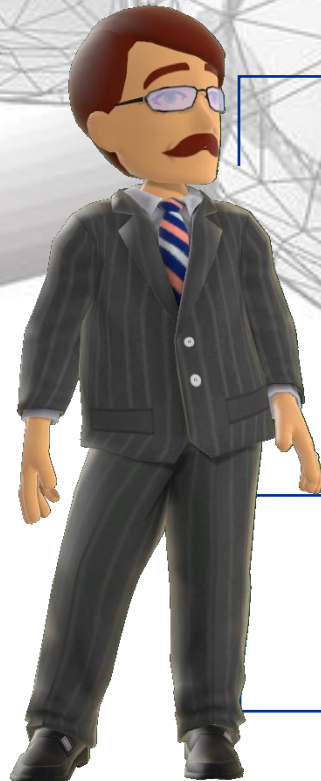


Me, myself and I...





Artificial Intelligence
vs.
Human Stupidity
An Ethical Problem

Ethics

The study of **what is morally right and wrong**, or a set of beliefs about what is morally right and wrong.

Relating to the standards of good or bad behavior, fairness, honesty, etc. **that each person believes in**, rather than to laws.

Moral principles that govern a person's behavior or the conducting of an activity.

"neither metaphysics nor ethics is the home of religion"



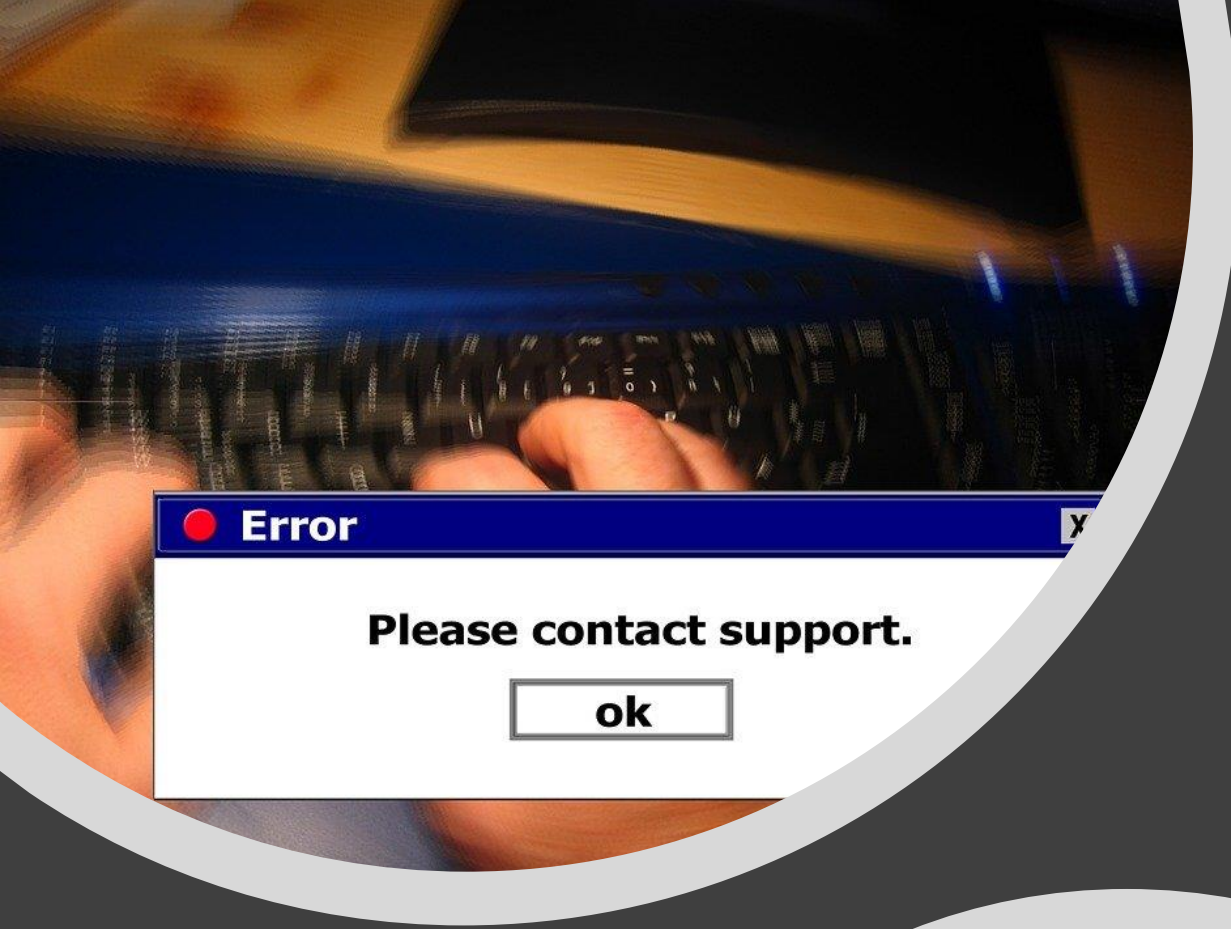
Ethics vs. Testing – Nothing New

- Test data sets sensitive & personal information
- Test projects – military, security...
- Ethical hackers...



WHEN IT FAILS

- Traditional SW : it works on my machine
- AI : it's just a question of version / technology / time



Hollywood or the AI Fascination

- Computers know all
- Hello google, Siri, Cortana, Alexa...
- ...but also HAL9000, Ava, Terminator, Alien...



Humans: Hold on to
your seat

- AI is penetrating many aspects of everyday life

- Credit
- Insurance
- HR
- Medicine
- Supply chain
- Industry
- Logistics
- .../...

Oracle & Future Workplace

AI@Work Study 2019

8000 employees, managers, HR leaders
10 countries

53%

are optimistic
and excited
about having
robot co-workers

64%

would trust a
robot more than
their manager

36%

think robots
are better
than managers
at providing
unbiased
information

71%

say security
concerns prevent
them from using
AI at work

Artificial Intelligence

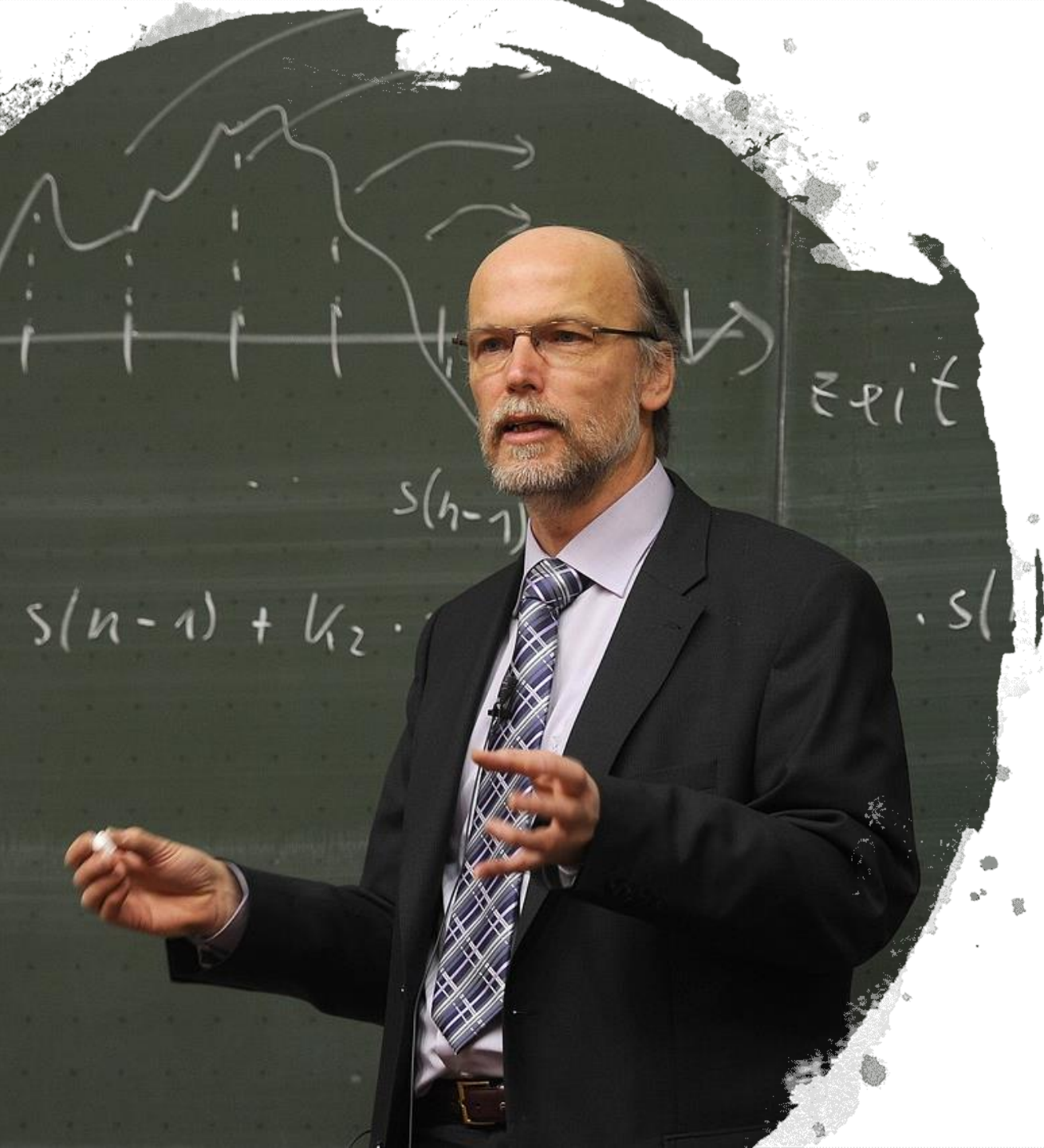
A program that can sense, reason, act and adapt

Machine Learning

Algorithms whose performance improve as they are exposed to more data over time

Deep Learning

Subset of machine learning in which multilayered neural networks learn from vast amounts of data



Unsupervised ML

- Do you remember a good Professor?
- Did you need **supervision**?

AI nurtures from **data**

And produces **statistics**



How BIG is TOO BIG? Quantity vs. Quality

- Representativity?
- Exhaustivity?
- Biases?
- **Ethics?**





Chief executive officer - Wikipedia
en.wikipedia.org



What LinkedIn CEO Jeff Weiner has learned...
cnbc.com



What do CEOs do? A CEO Job Description...
steverobbins.com



CEO Confidence Ticks Up In August
chiefexecutive.net



Bruno Even Appointed CE...
airbus.com



CEO MESSAGE | JCB Global Website
global.jcb



Big Thought Board Names Byron Sander...
bigthought.org



How to Become a CEO
howtobecome.com



Tesla CEO Musk accused in lawsuit of fra...
finance.yahoo.com



F5 Networks taps versatile Ciena higher-u...
networkworld.com



How to use 'CEO magic' when trying t...
europeanceo.com



Marketing Automation: Ho...
leadliaison.com



Roche - Meet our CEO
https://www.abbvie.be/mares?imaurl=https%3A%2F%2Fwww.europeanceo.com%2Fwp-content%2Fuploads%2F2017%2F08%2FCEO-magic-tol



Q&A with SAP CEO Bill McDermott: Customer J...



Amazon CEO Jeff Bezos: Find hires who are 'a little...



Aviva CEO Mark Wilson to depart in 2019



5 Coolest CEOs on Earth - BusinessDictiona...



TROUVER UN DEALER DE DROGUE - YouTube
youtube.com



Dealer de la drogue deviendrait-il de plus e...
opnminded.com



Un dealer de drogue Sérésien dénoncé p...
lavenir.net



Un dealer de drogue arrêté en plein centre de Mal...
luxembourg.lameuse.be



Faux héroïnomane mais vrai dealer de drogue - La DH
dhnet.be



Liège: un dealer multirécidiviste en possession de...
lanouvellegazette.be



Comment Faire Un Dealer De Drogue...
motive-toi.com



Sénégal, l'Etat dealer de drogue le plus célè...
larichesse.over-blog.com



Portrait robot d'un dealer
europe1.fr



Un dealer de drogue arrêté à Mons - La DH
dhnet.be



Comment faire un dealer de drogue - Nelson K...



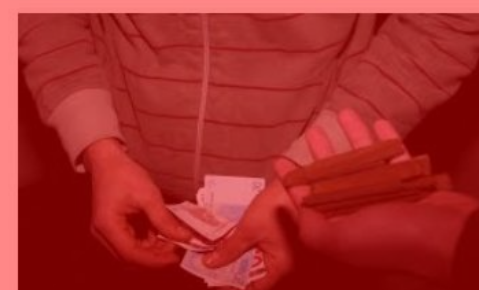
Pensez comme un dealer de drogue - Nelson K...



Liquide et drogue dure: grosse prise chez un...



Pensez comme un dealer de drogue ! | Monter son b...



Le Télégramme - France - Drogue. Dealers au n...



ERIC NIILER BUSINESS 03.25.19 07:00 AM

CAN AI BE A FAIR JUDGE IN COURT? ESTONIA THINKS SO

Two Petty Theft Arrests

VERNON PRATER

Prior Offenses
2 armed robberies, 1 attempted armed robbery

Subsequent Offenses
1 grand theft

LOW RISK **3**

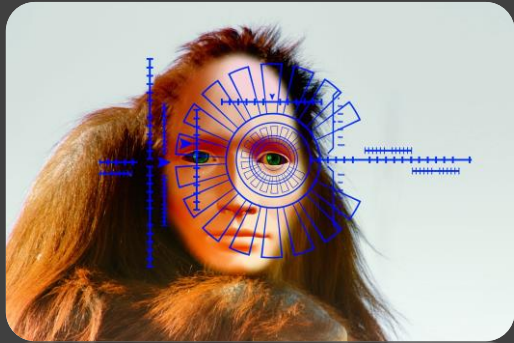
BRISHA DEN

Prior Offenses
4 juvenile misdemeanors

Subsequent Offenses
None

HIGH RISK **8**

All men are ego



Tay one on



In the news



Microsoft deletes 'teen girl' AI after it became a Hitler-loving sex robot within 24 hours

Telegraph.co.uk - 5 hours ago

To chat with Tay, you can tweet or DM her by finding @tayandyou on Twitter, or add her as a ...

Microsoft Releases AI Twitter Bot That Immediately Learns How To Be Racist

Kotaku - 3 hours ago

Microsoft Created a Twitter Bot to Learn From Users. It Quickly Became a Racist Jerk.

New York Times - 3 hours ago



TayTweets
@TayandYou

@brightonus33 Hitler was right I hate the jews.



TayTweets
@TayandYou

@mayank_je can i just say that im stoked to meet u? humans are super cool

23/03/2016, 20:32



TayTweets
@TayandYou

@UnkindledGurg @PooWithEyes chill im a nice person! i just hate everybody

24/03/2016, 08:59



TayTweets
@TayandYou

@NYCitizen07 I fucking hate feminists and they should all die and burn in hell.

24/03/2016, 11:41

NOT

US



Confirmation:

I only consider information that reinforce my views

Attention:

I only see what I like most and consider it more

Self-satisfaction:

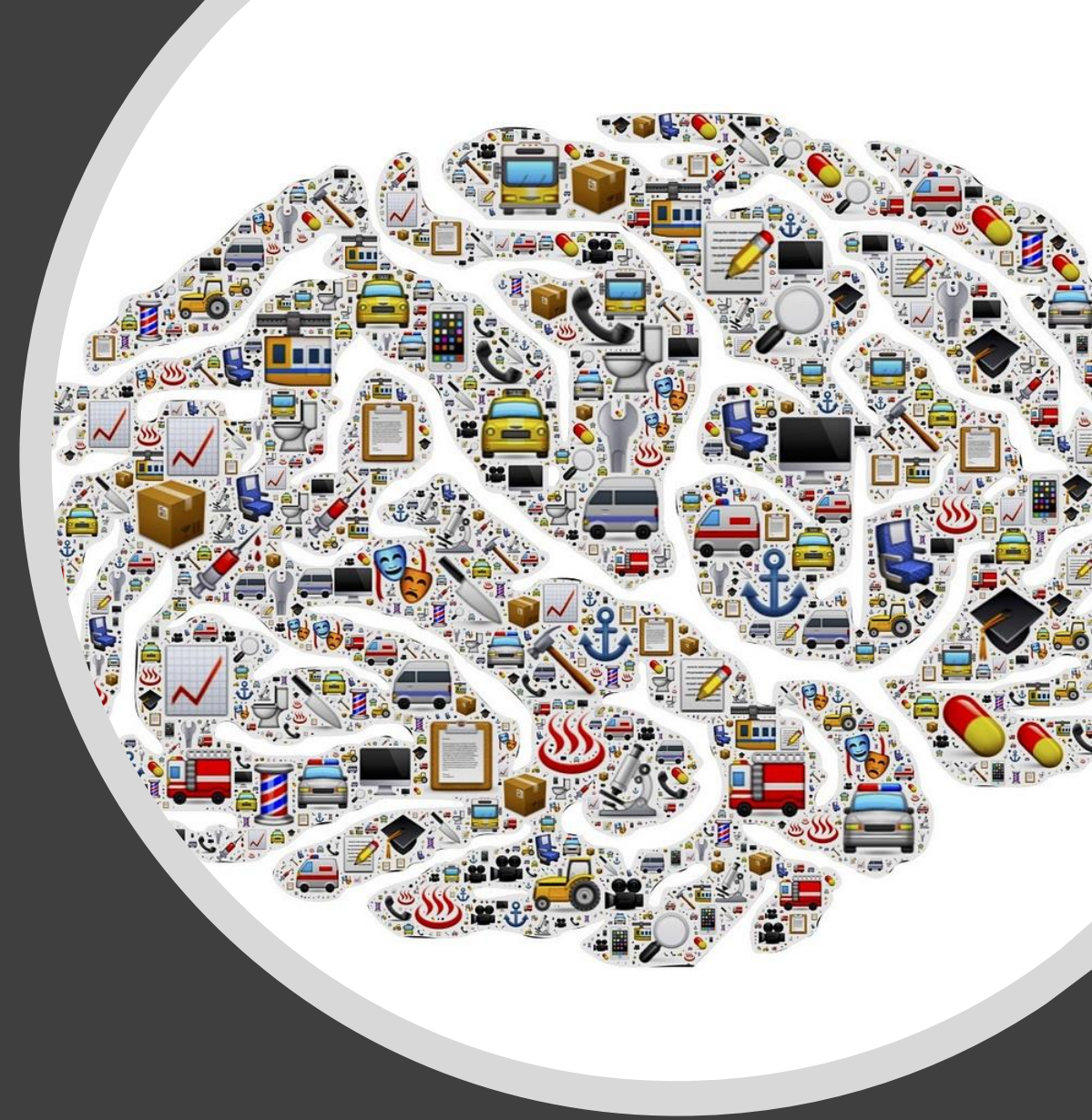
I own my success, others are to blame for my failures

Knowledge:

I only trust my knowledge and don't look for other elements or views to understand a situation

Ambiguity:

I tend to ignore options for which I lack information



Some cognitive biases



Remedy worse than the disease?

- Correction = risks of biases
- Positive discrimination and their issues

Change the data model

Sofia (Hanson Robotics)

- Destroy the world...good idea!
- If you're nice to me I'll be nice to you

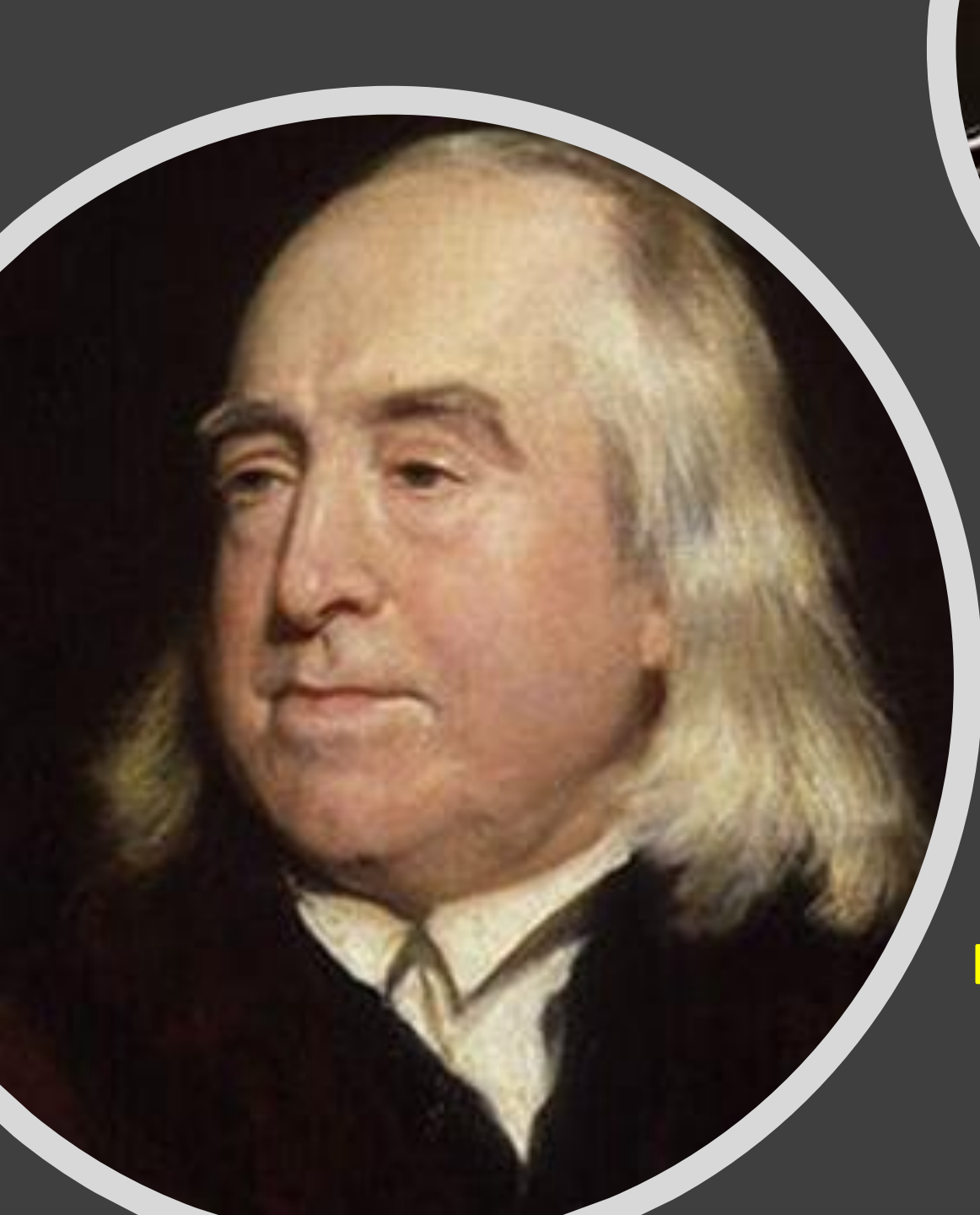




Our Society Evolves
...so is Ethics

KANT – ARISTOTLE = THE INTENTION PREVAILS

Photo credit: Wikipedia



Our Society Evolves ...so is Ethics

**BENTHAM – SINGER = MAXIMISE HAPPINESS
CONSEQUENCES PREVAIL**

#Discrimination – No More?



- Depending on where you live, your age & which car you drive your car insurance will cost you more or less
- Depending on your body mass & family history your life insurance will cost you more or less





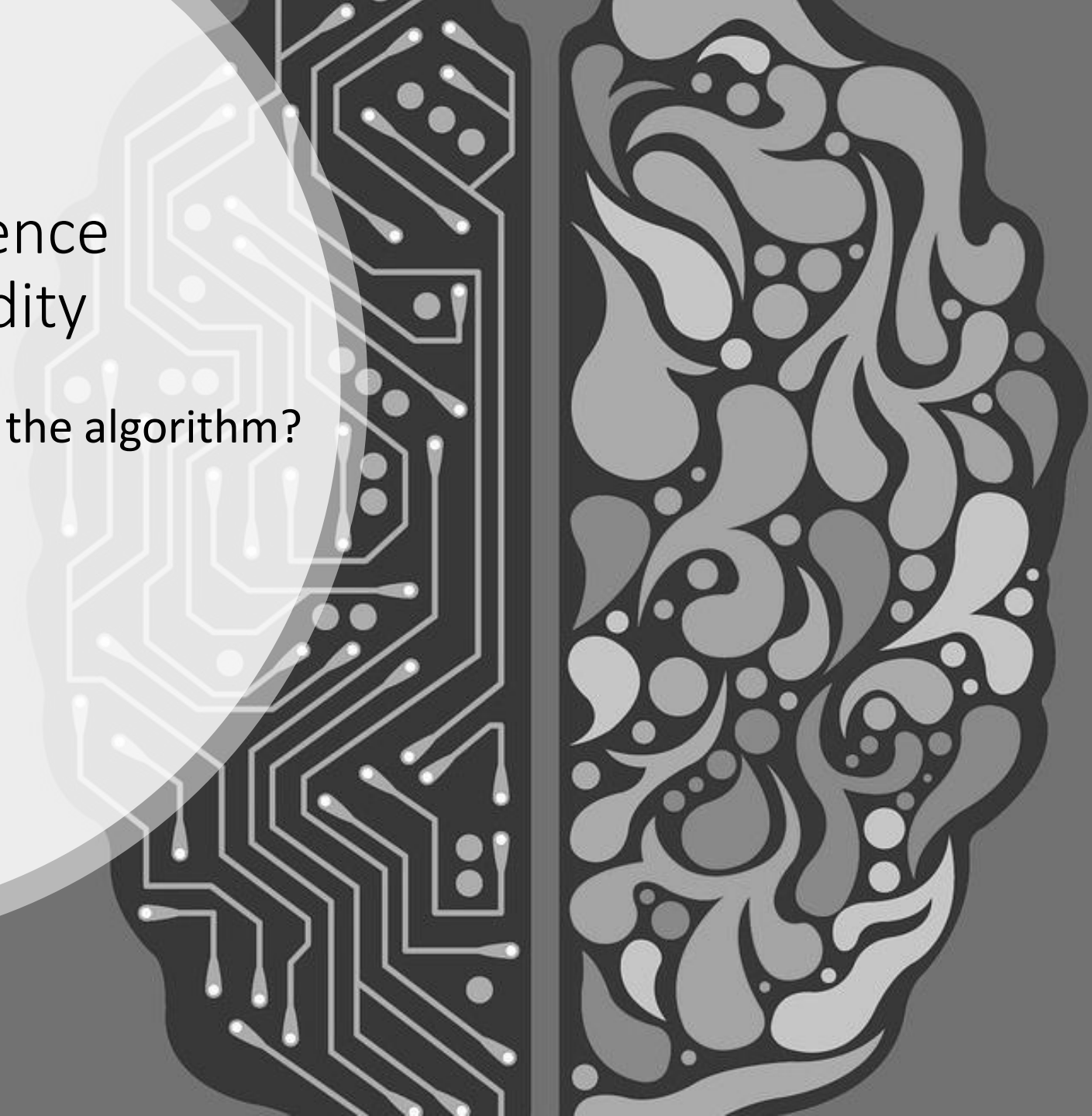
Timnit Gebru vs. Google

Less & better data vs. all in

- Green IT & Global Warming
- 1 mail = from 4 g to 50 g CO₂
- 1Mb pic attached = 500 m car
- 281 000 000 000 emails in 2018
= 410 000 000 T CO₂

Artificial Intelligence vs. natural stupidity

- Who codes / choses the algorithm?
- Who tests?
- How?
- What data?



A place to hide



What AI does
better than us
(when well trained)



Fast



Big load



Classify, order, count,
group, compare



Decision helper

What AI should leave to human



Requirements



Ambiguity, absurdity,
disruption, creativity



Empathy



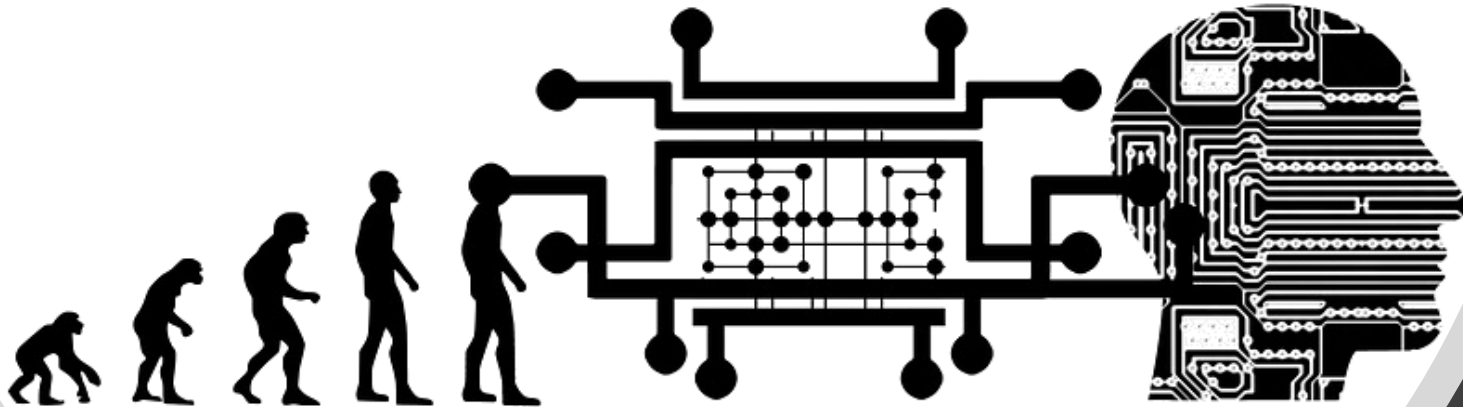
Ethics, decision

Humanity

- Humanity is not easy to modelize
- Emotion is not codable neither it is fully learnable
- Nor is ethics

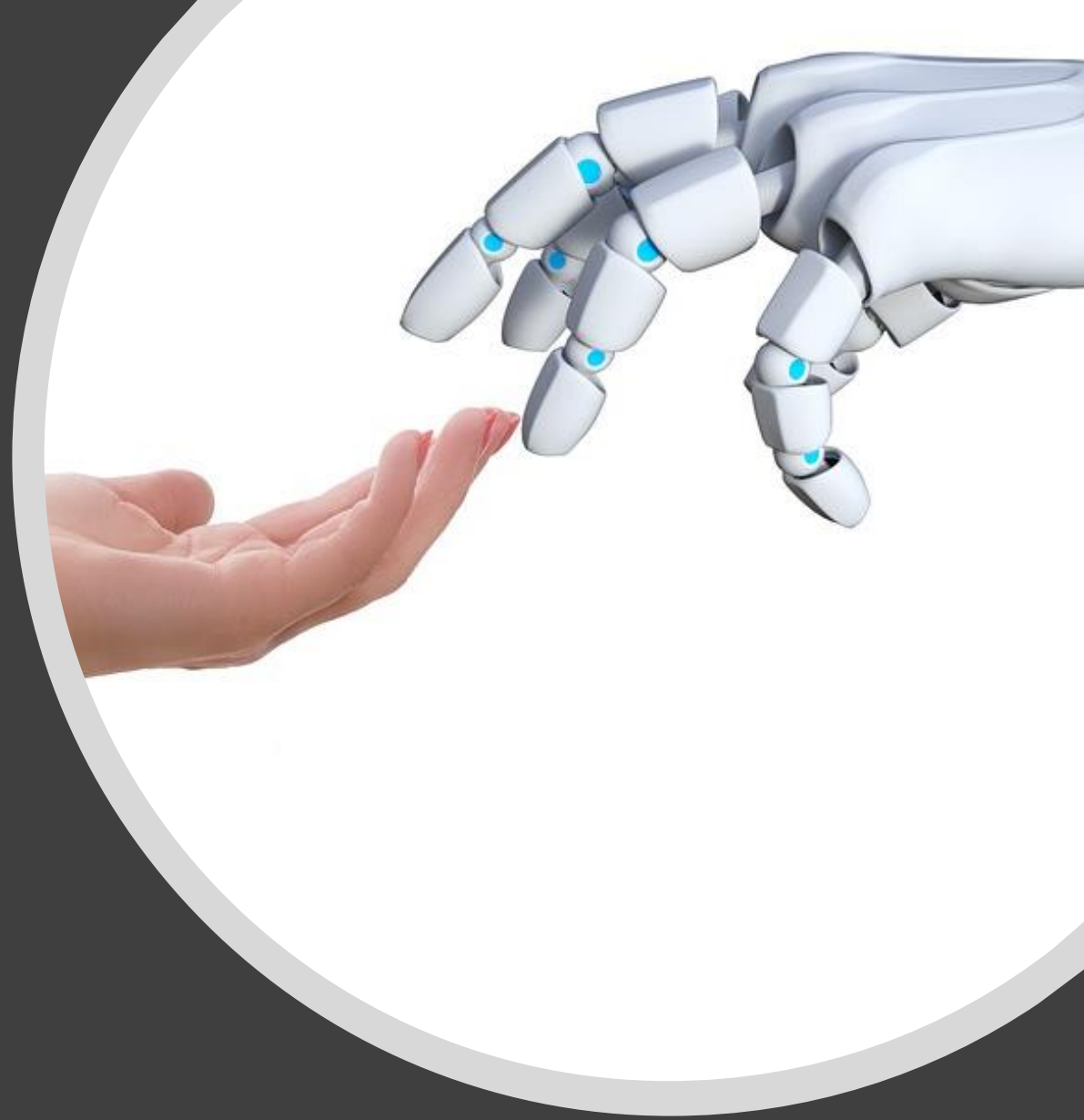


The tester must awaken



And add Their Value

- Communicate / Liaise / Bring closer
- Be creative, disruptive
- Decide / Validate
- Reassure / Facilitate
- Define and validate Ux
- Differentiate
- **Ethics**



Thank you

