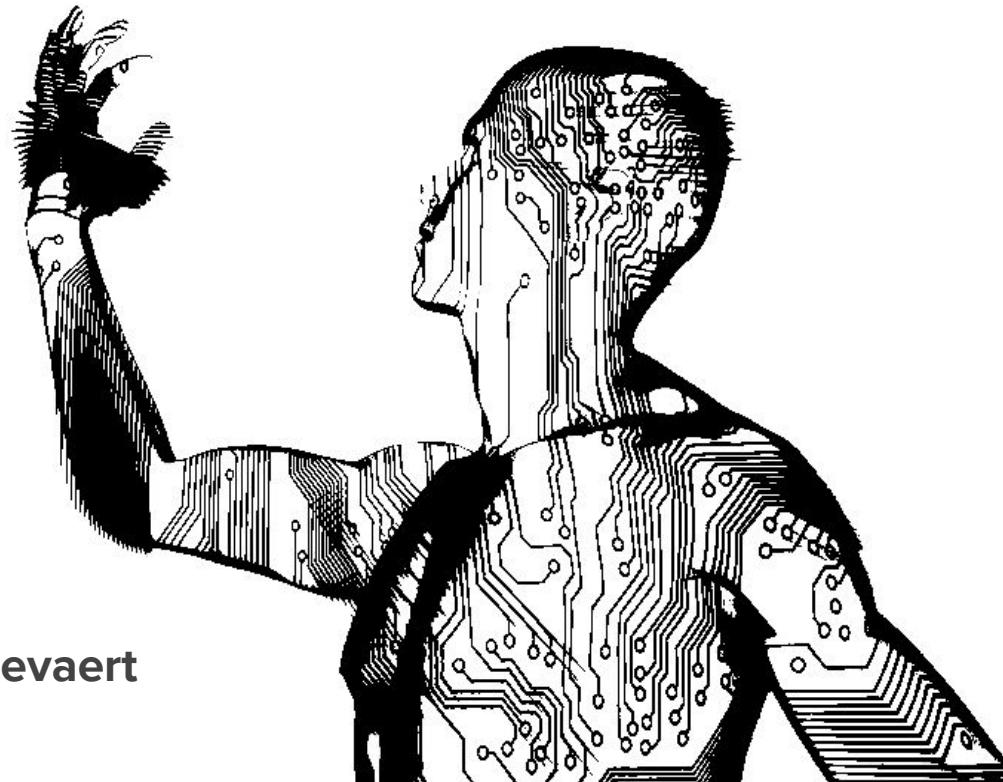


# Artificial intelligence

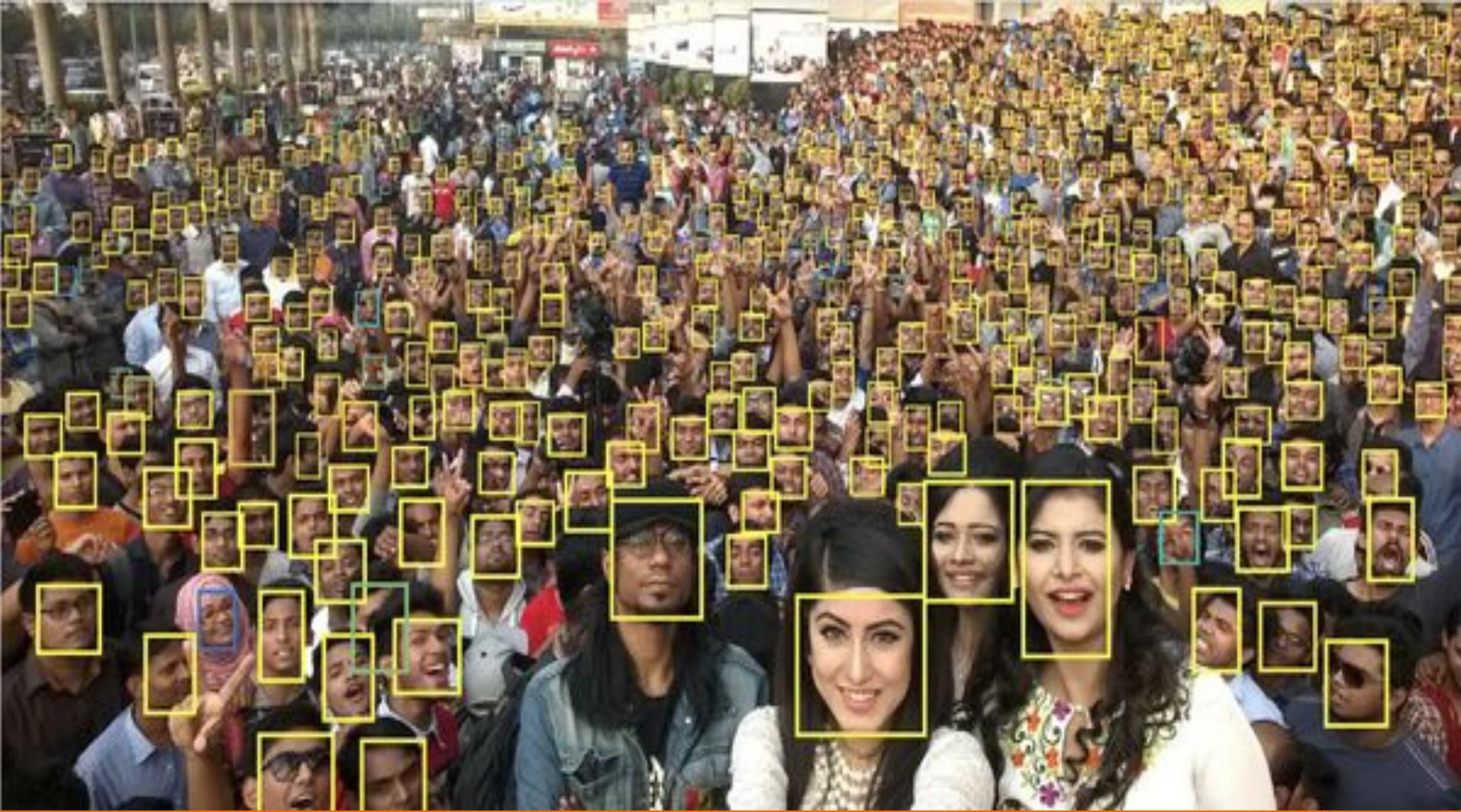
Science fiction that became reality

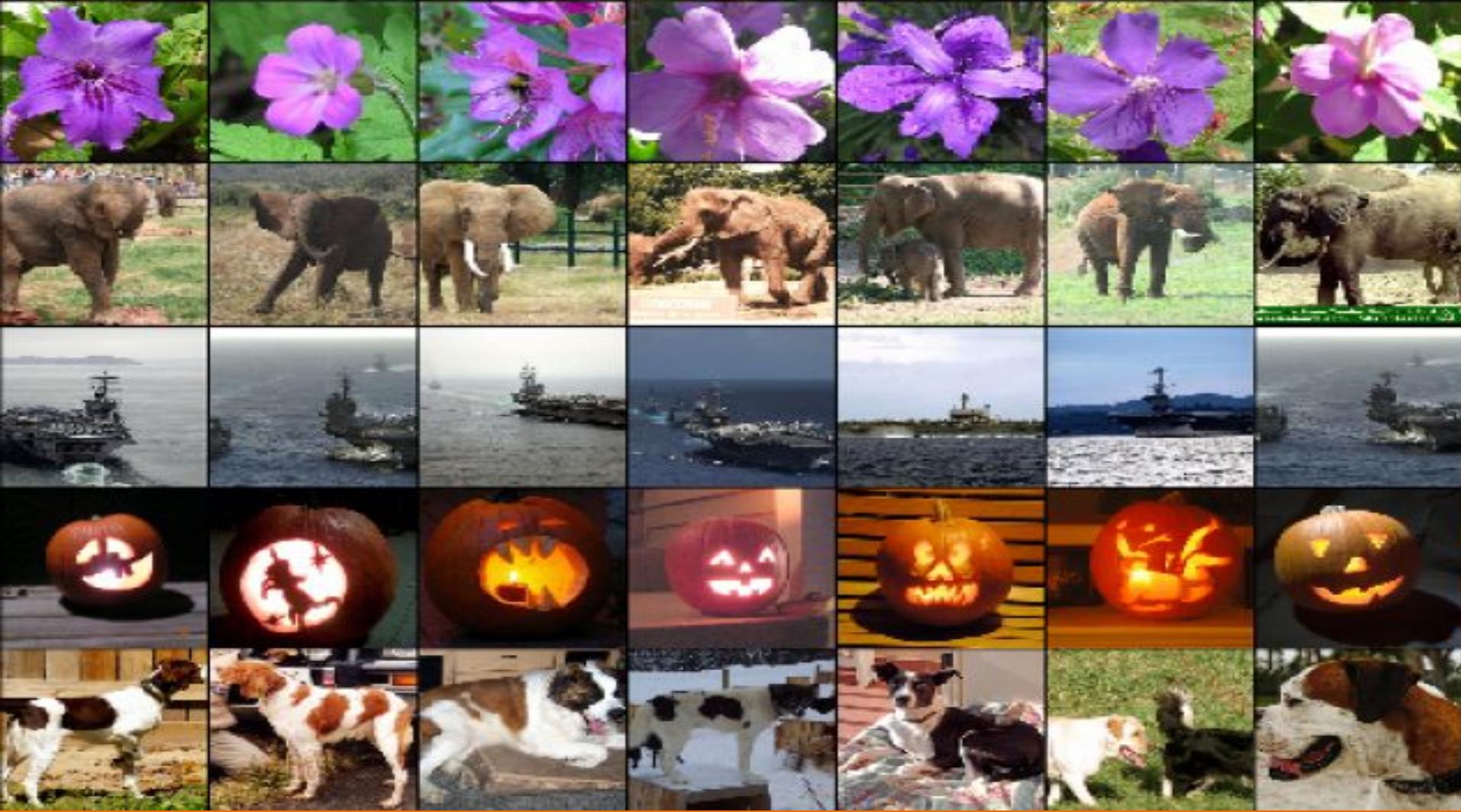


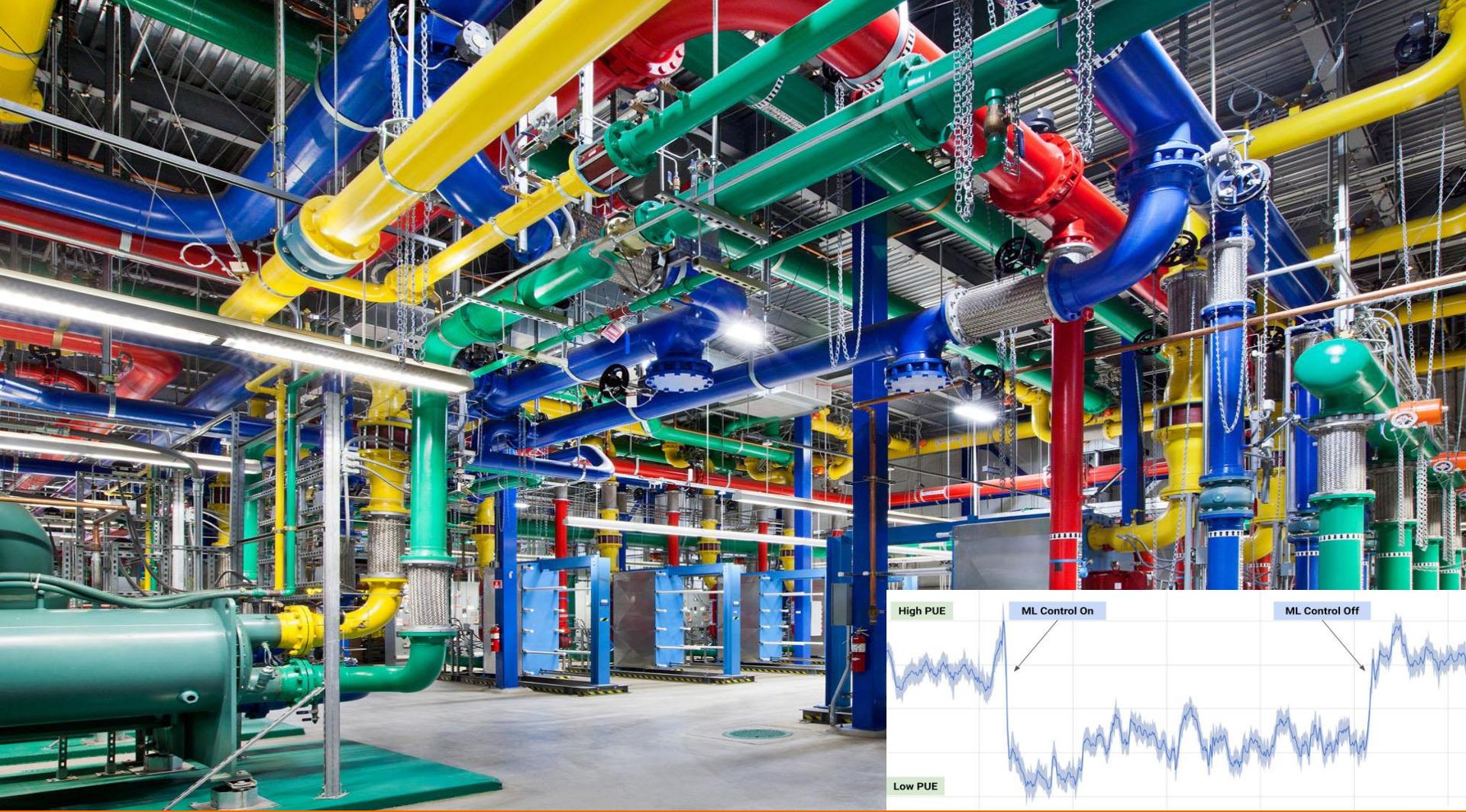
Wouter Gevaert

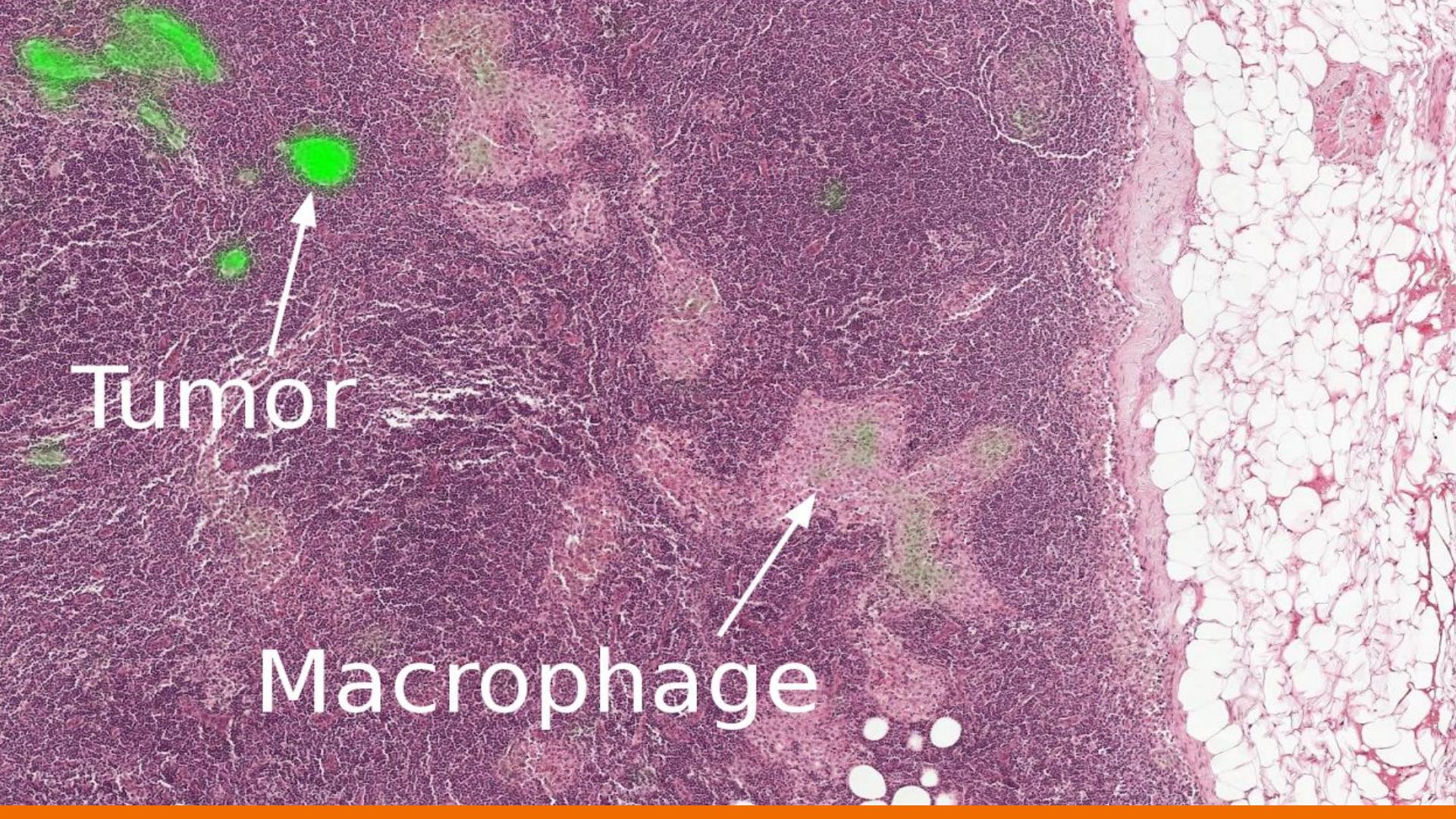
Sci-Fi  
?





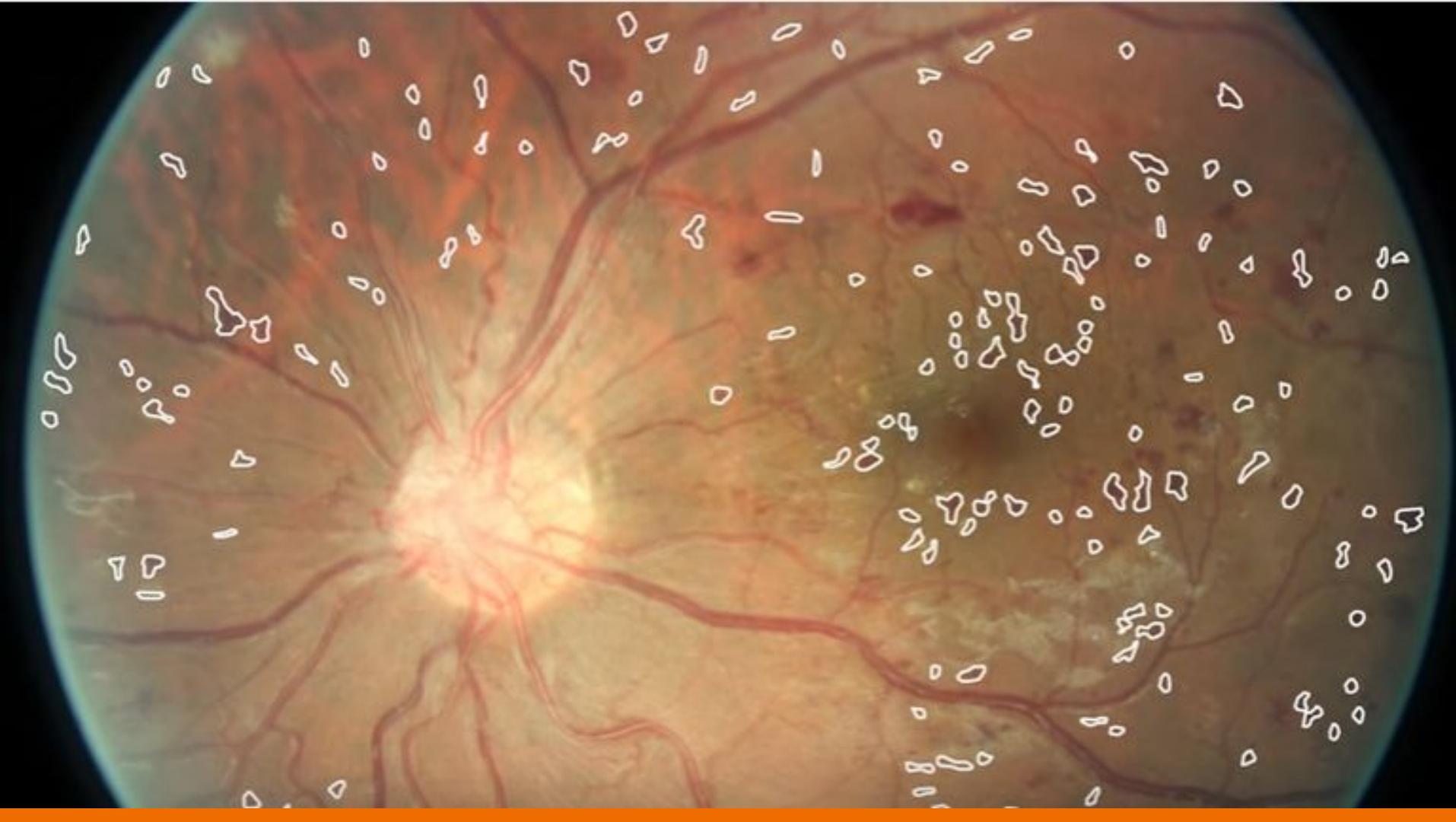


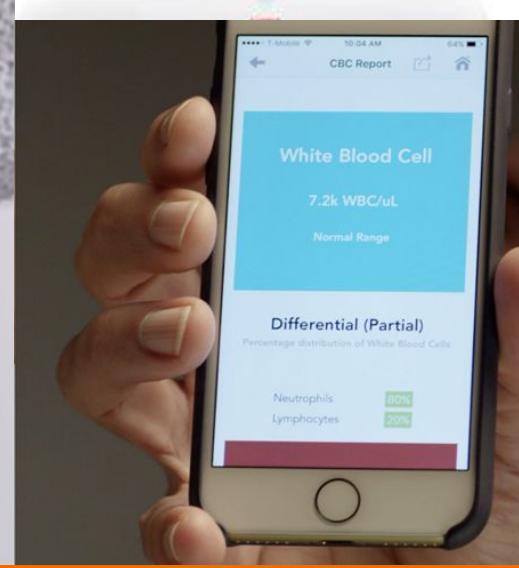
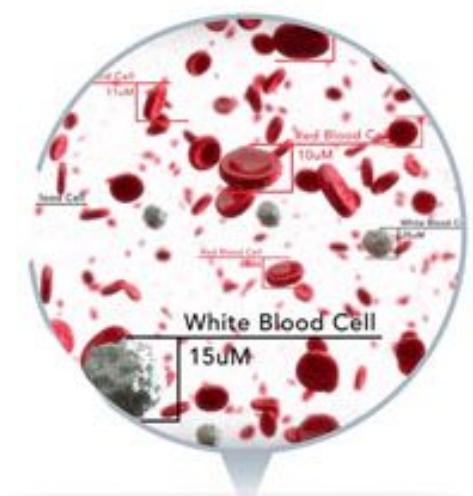




Tumor

Macrophage





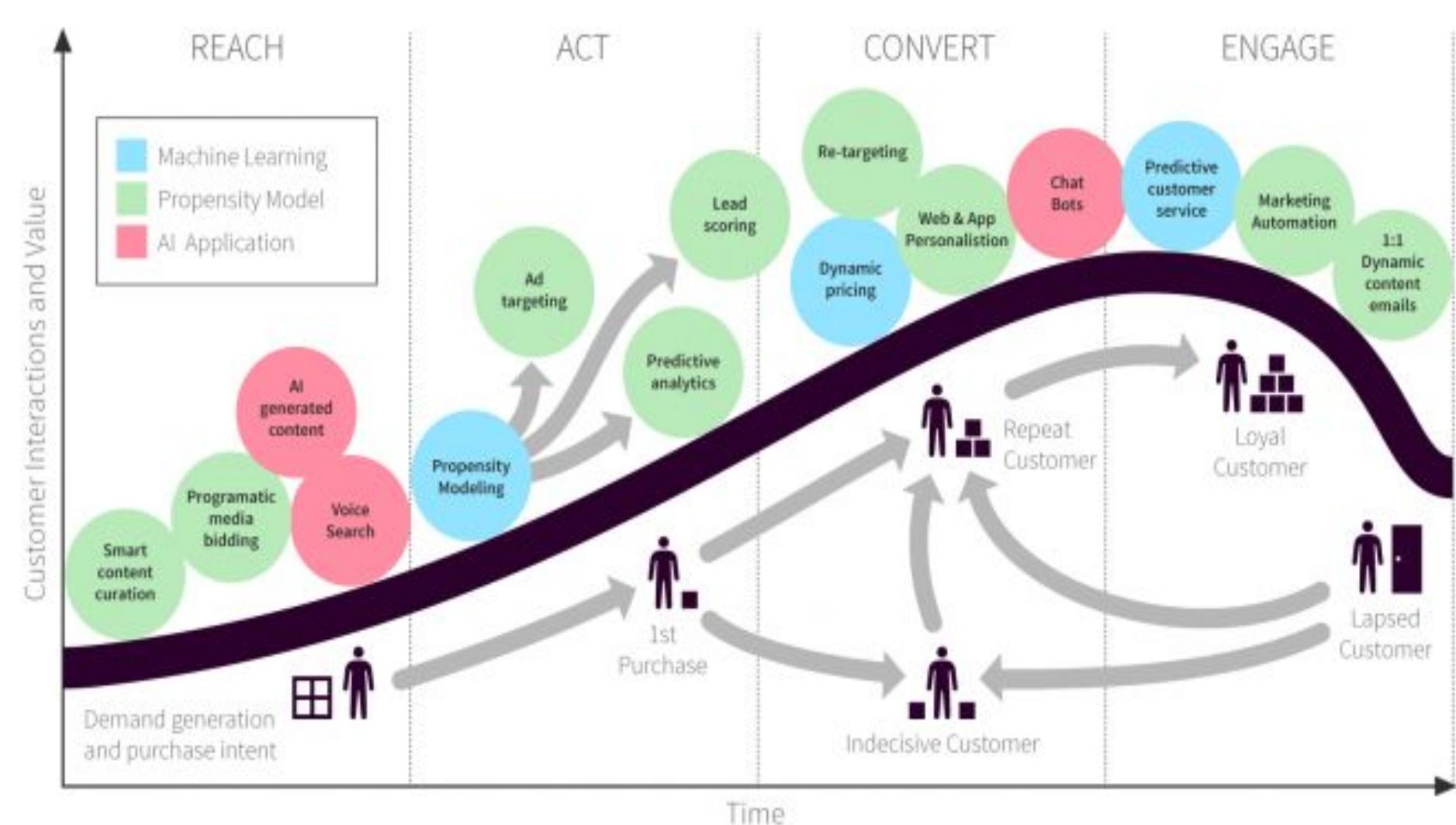
Phone Mail

What can I help you with?

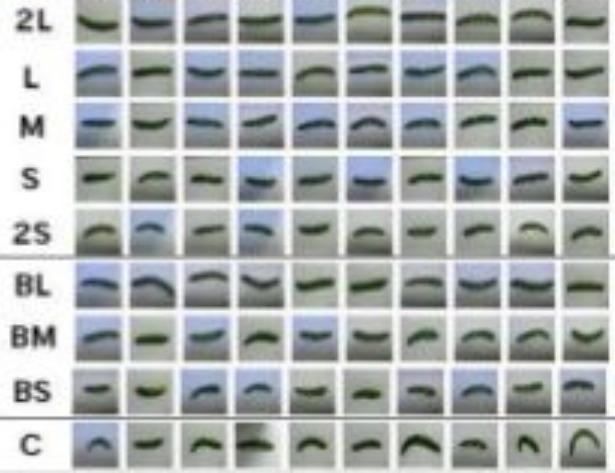




/DoNotPay - <https://donotpay-search-master.herokuapp.com>



# TensorFlow powered Cucumber Sorter



# Music Reccomendations (...)

Add your favorite songs to this playlist (alternative/punk/rock only) Try to add more obscure songs so these are actual reccomendations! Be nice and keep it relevant :) ~ lilymvc

Created by: Lily Macdonald • 12 songs, 39 min

PLAY



FOLLOWERS  
0

Download

Filter

SONG

ARTIST

ALBUM

USER



+ Shade

Boston Manor

Saudade - EP

Lily Macdonald

32 minutes ago

+ Constant Headache

Joyce Manor

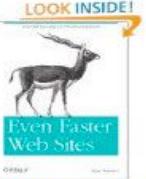
S/T

Lily Macdonald

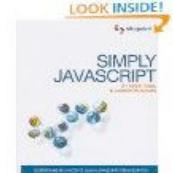
32 minutes ago

## Today's Recommendations For You

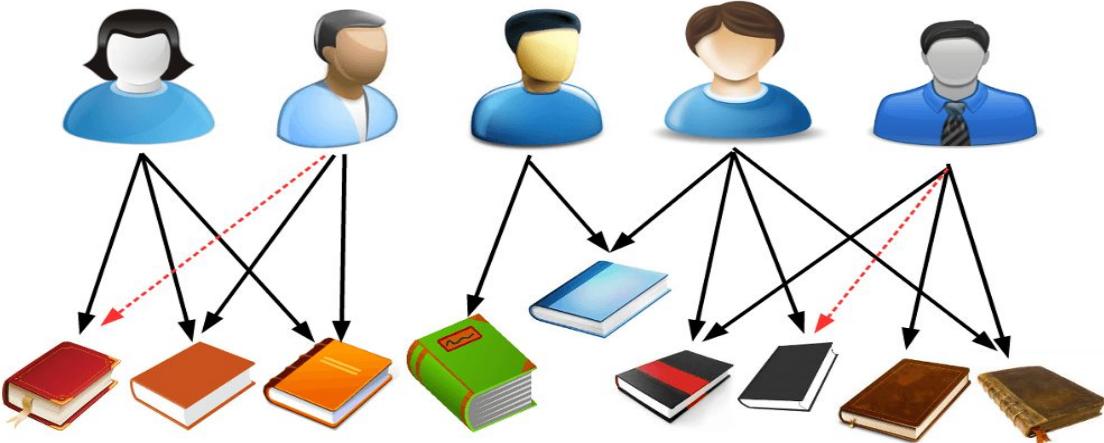
Here's a daily sample of items recommended for you. Click here to :



[LOOK INSIDE!](#)  
[Even Faster Web Sites:  
Perform... \(Paperback\)](#) by Steve Souders  
★★★★★ (7) \$23.10  
Fix this recommendation



[LOOK INSIDE!](#)  
[Simply JavaScript \(Paperback\)](#) by Kevin Yank  
★★★★★ (19) \$26.37  
Fix this recommendation



NETFLIX

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Browse DVDs

Your Queue

Movies You'll ❤

## Congratulations! Movies we think You will ❤

Add movies to your Queue, or Rate ones you've seen for even better suggestions.



[Add](#)  
★★★☆☆ (Not Interested)



[Add](#)  
★★★☆☆ (Not Interested)



[Add](#)  
★★★☆☆ (Not Interested)



[Add](#)  
★★★☆☆ (Not Interested)



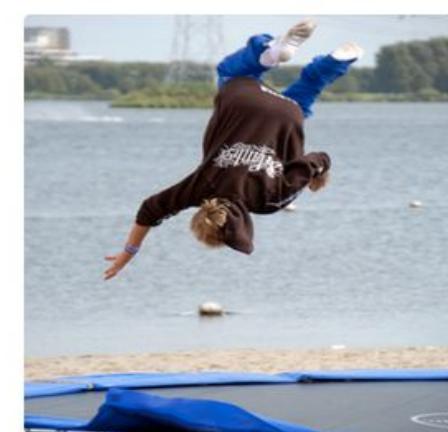
"man in black shirt is playing guitar."



"construction worker in orange safety vest is working on road."



"two young girls are playing with legos toy."



"boy is doing backflip on wakeboard."



"girl in pink dress is jumping in air."



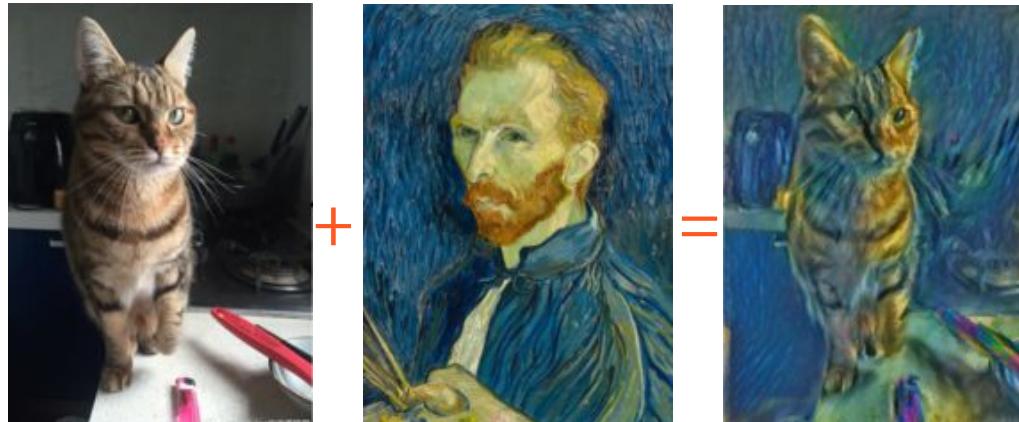
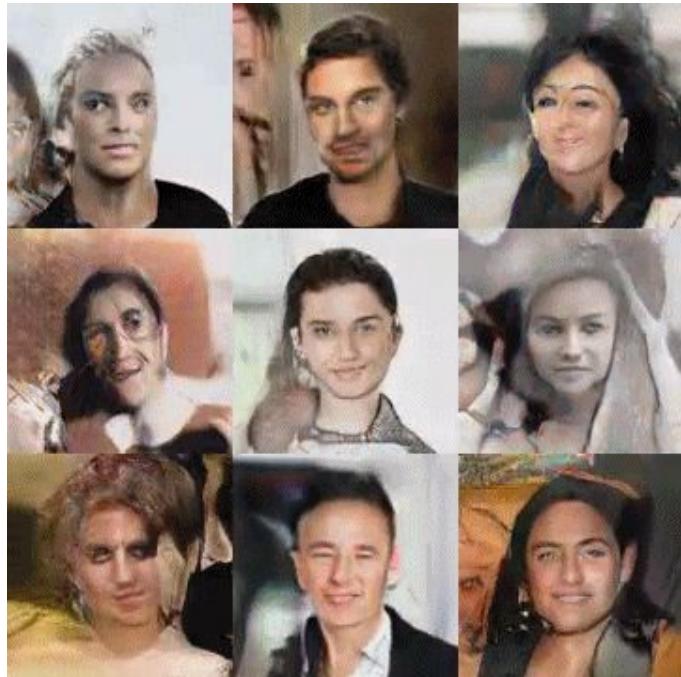
"black and white dog jumps over bar."

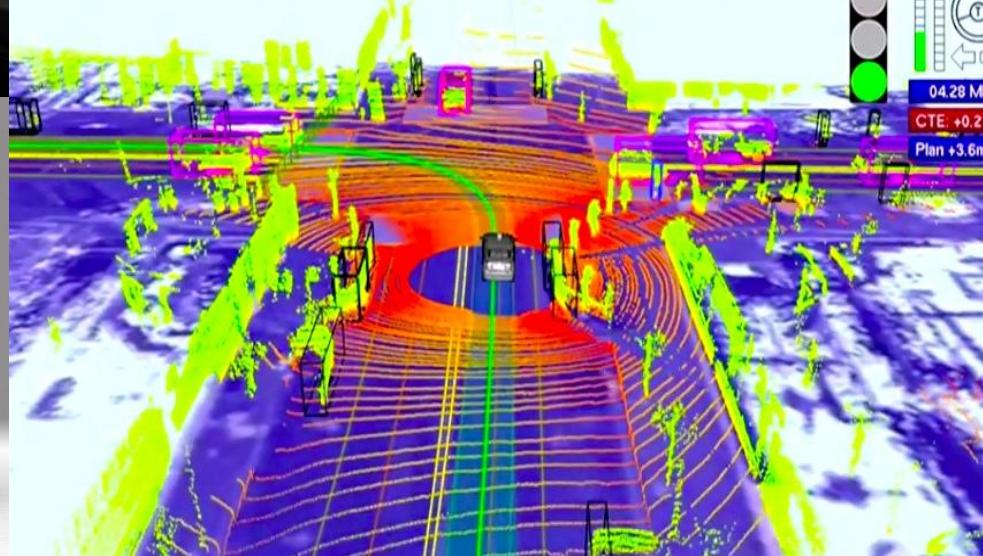
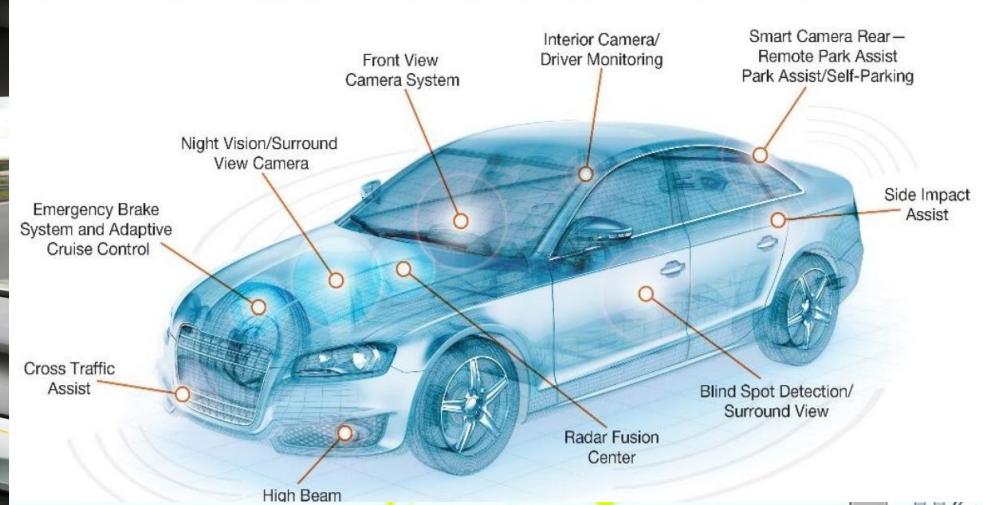


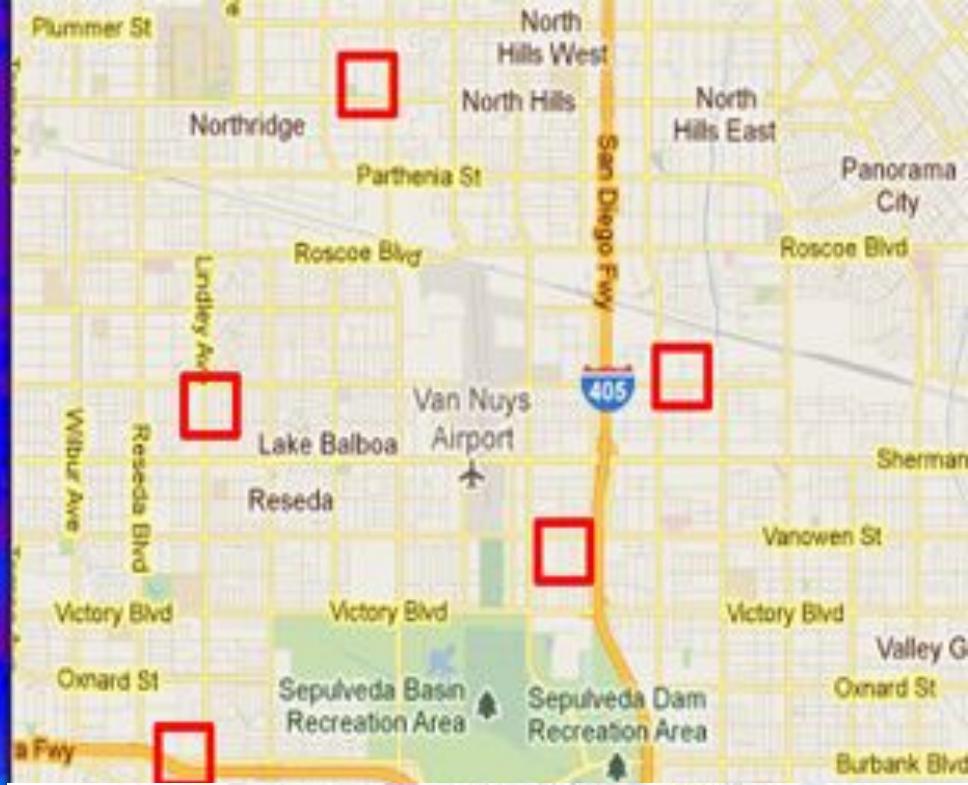
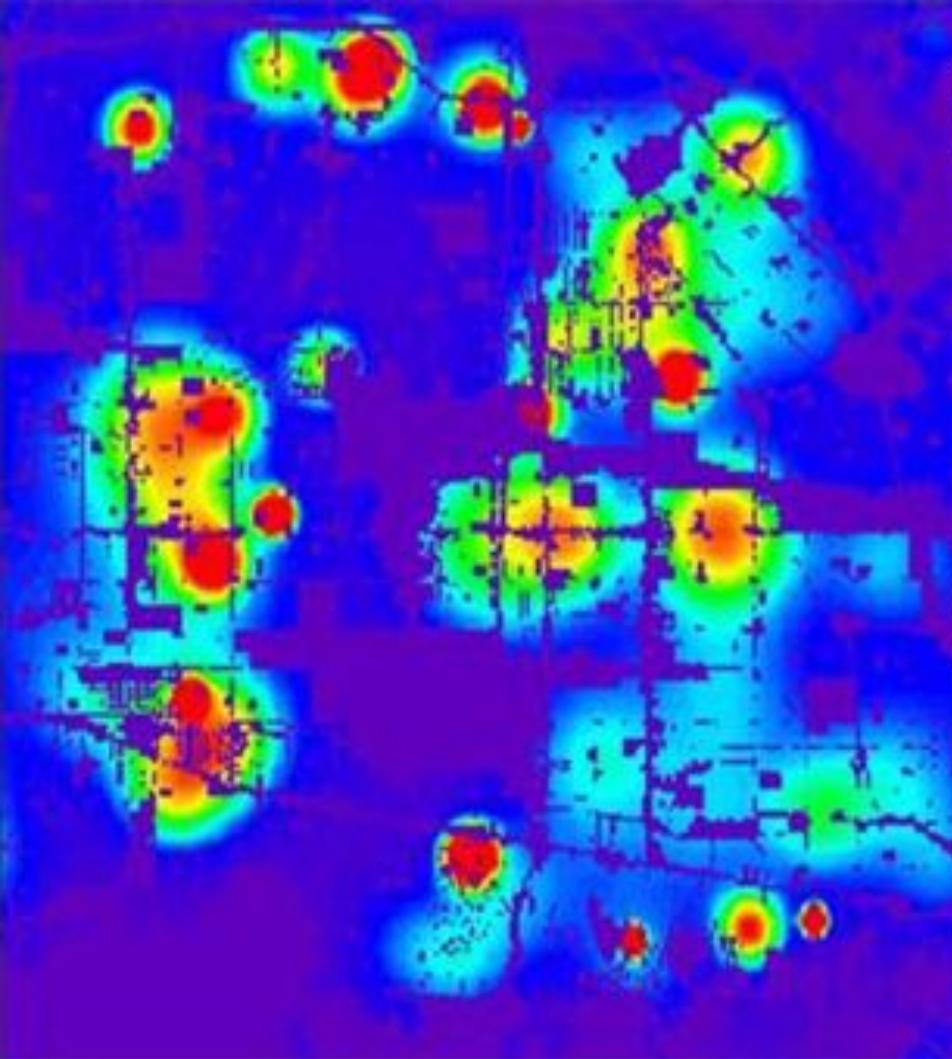
"young girl in pink shirt is swinging on swing."



"man in blue wetsuit is surfing on wave."





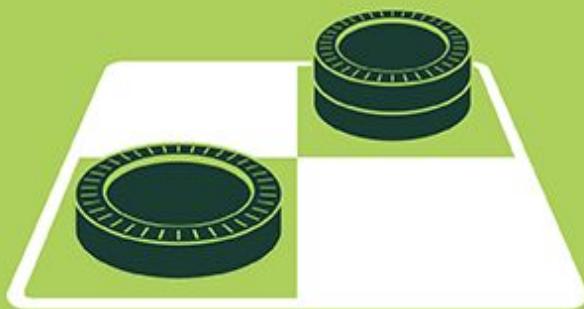


**PredPol**  
Predict Crime in Real Time™

PredPol provides targeted, real-time crime prediction  
designed for and successfully tested by officers in the field.

# ARTIFICIAL INTELLIGENCE

Early artificial intelligence  
stirs excitement.



## MACHINE LEARNING

Machine learning begins  
to flourish.



## DEEP LEARNING

Deep learning breakthroughs  
drive AI boom.



1950's

1960's

1970's

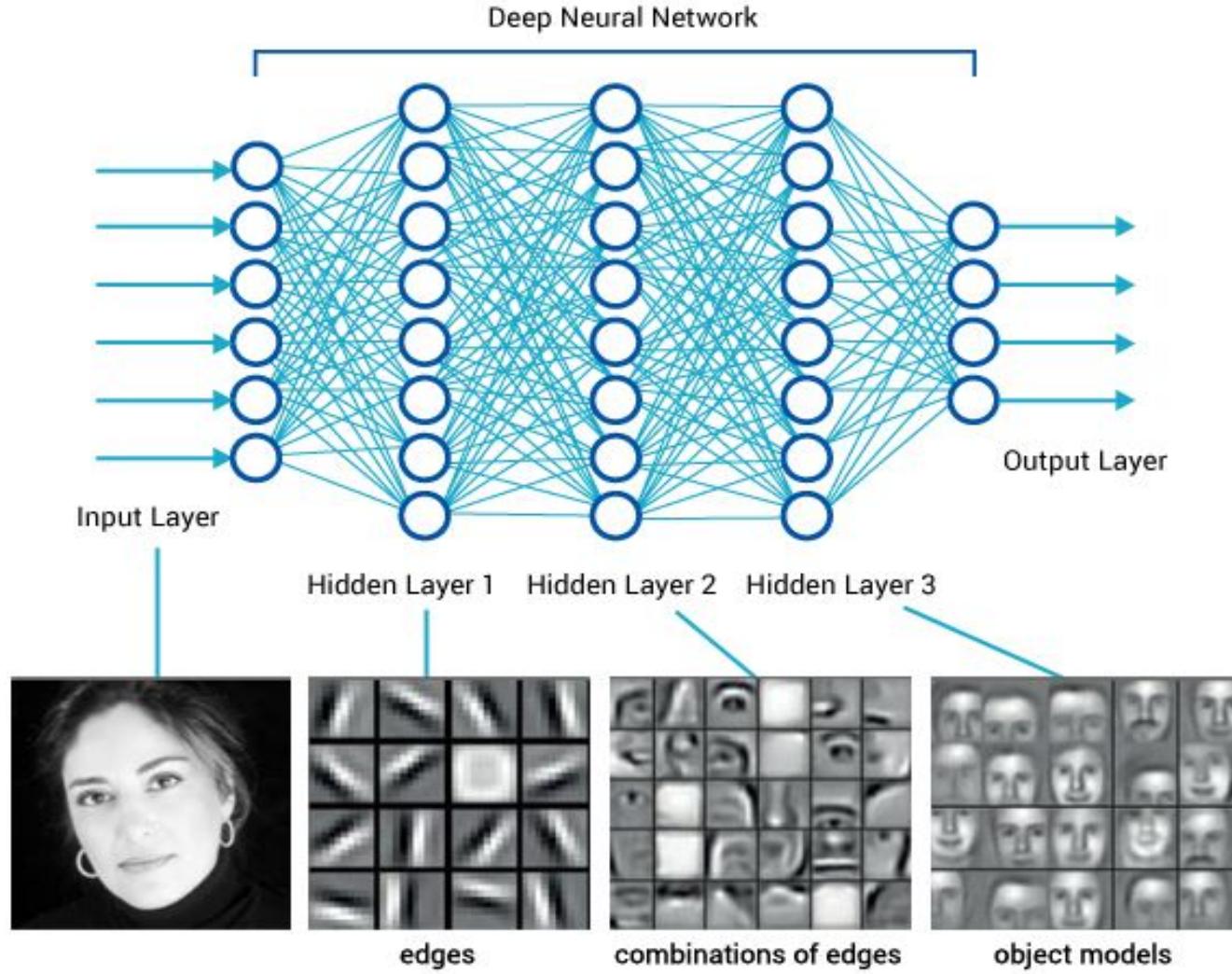
1980's

1990's

2000's

2010's

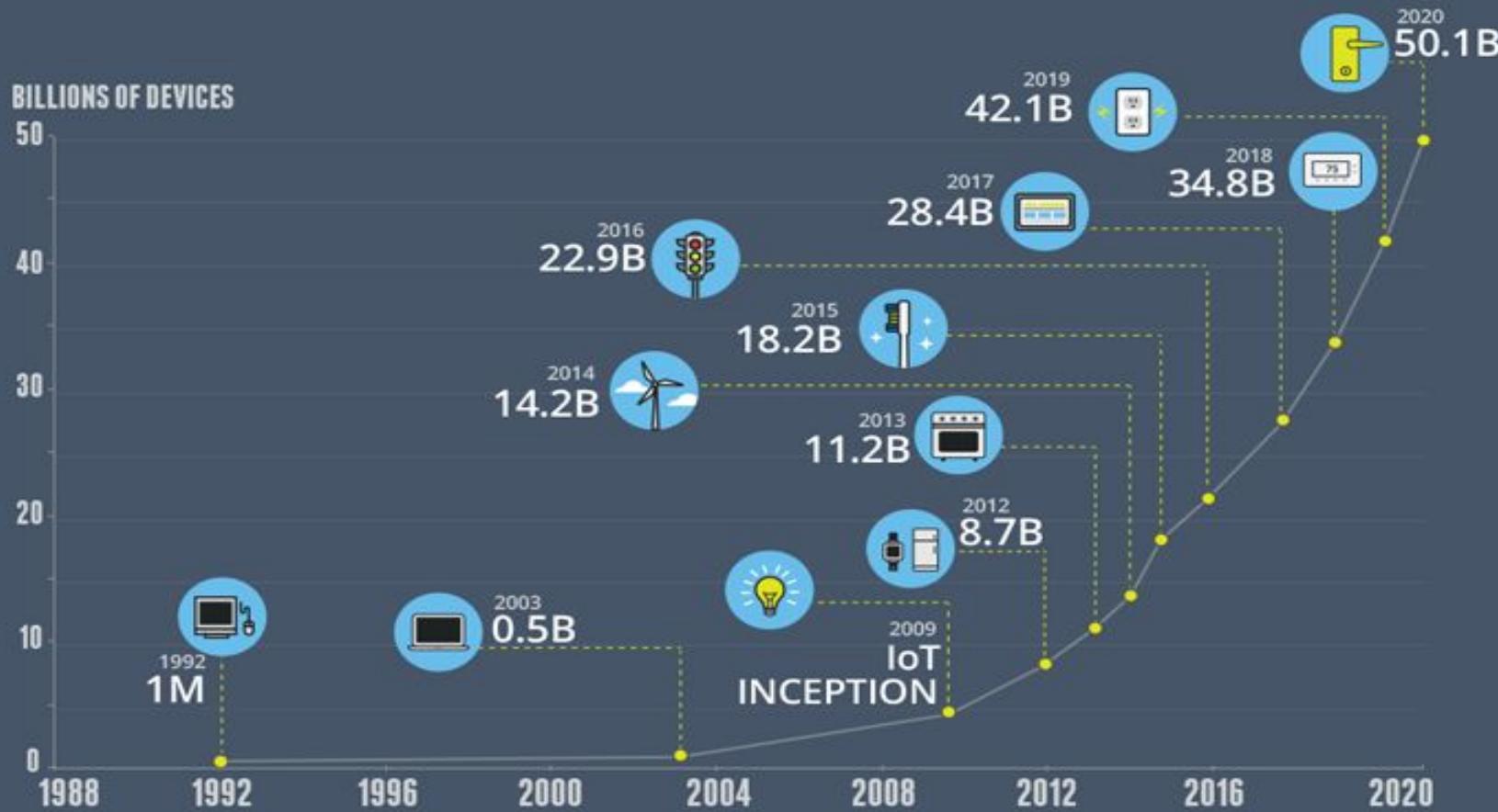
...



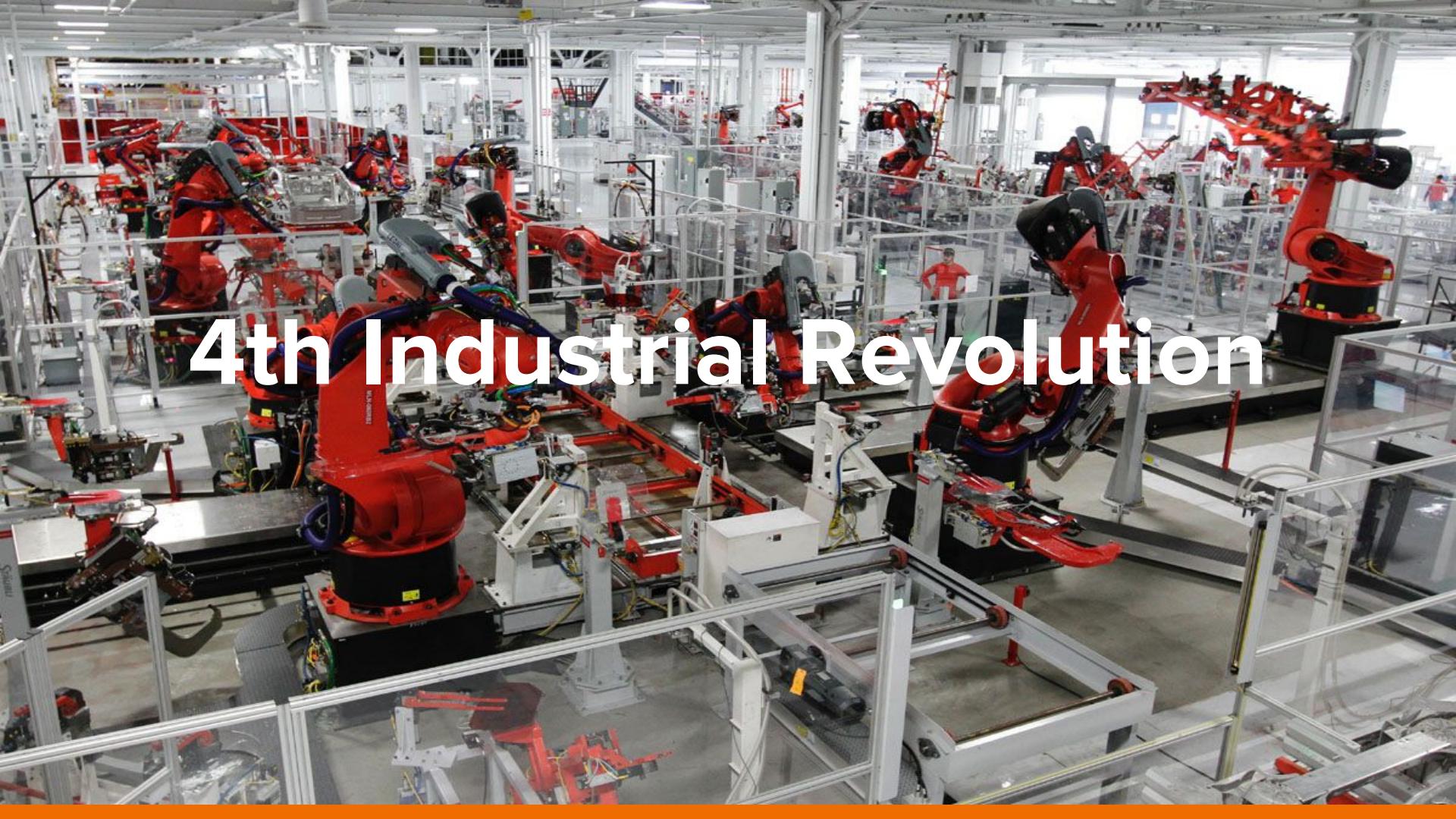


# GROWTH IN THE INTERNET OF THINGS

THE NUMBER OF CONNECTED DEVICES WILL EXCEED **50 BILLION** BY 2020

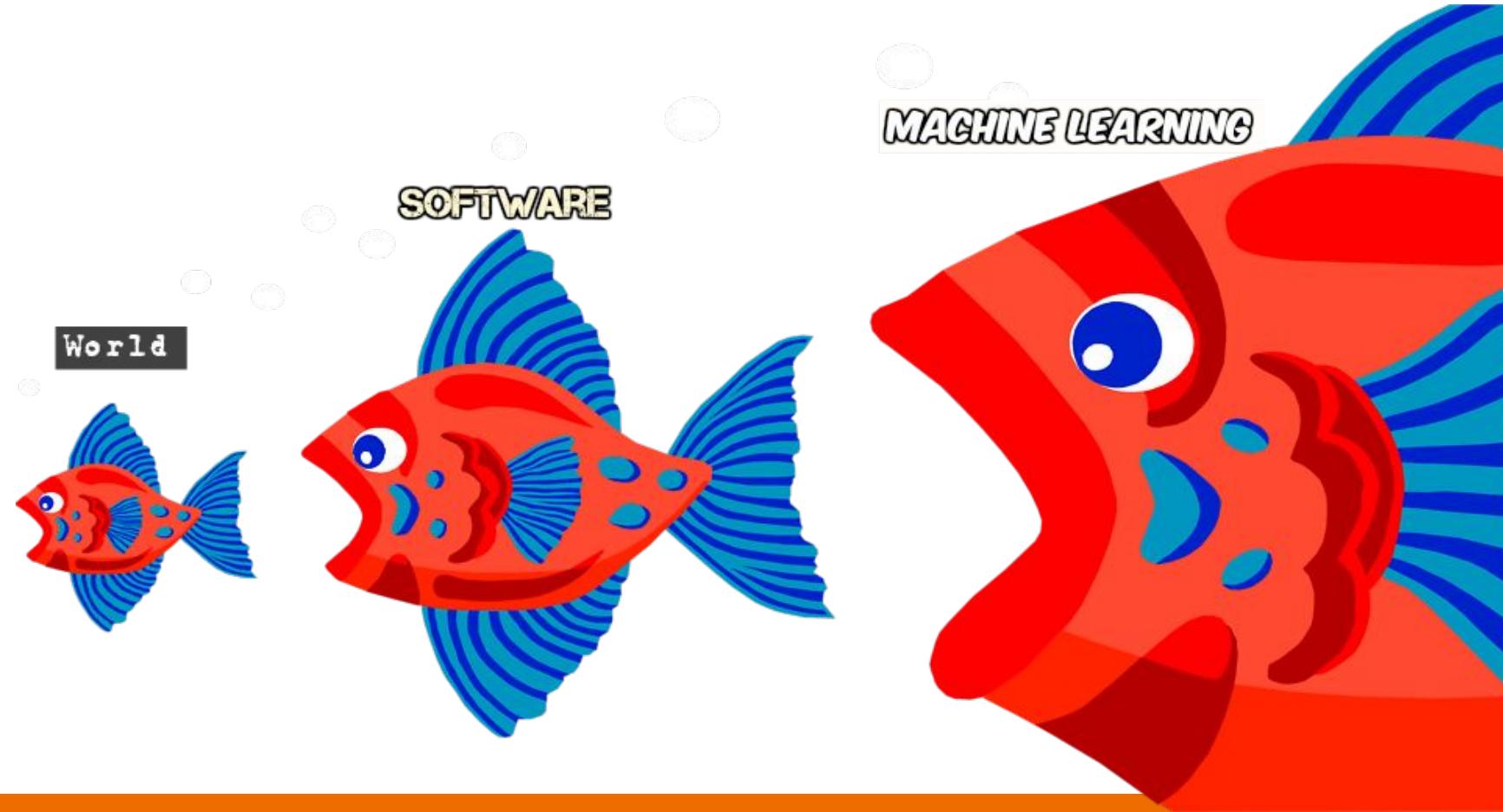




A wide-angle photograph of a modern automobile assembly plant. Numerous red KUKA brand industrial robots are positioned at workstations, each equipped with specialized grippers and tools to perform tasks like welding and assembling car body panels. The factory is a massive, brightly lit space with a high ceiling, featuring a complex network of overhead conveyor belts, lighting fixtures, and safety railings. In the background, a few workers wearing high-visibility vests are visible, monitoring the operations. The overall scene illustrates a highly automated and efficient manufacturing environment.

# 4th Industrial Revolution

# Machine learning eats the world





Trends reported by the World Economic Forum (WEF) in January suggest that **we have until 2020 to prepare** to compete with artificially intelligent job seekers.

Advanced robotics, self-driving cars, artificial intelligence and ‘machine learning’ will soon affect world economies, and our jobs. The biggest take away is the statement that a “net loss of 5.1 million jobs over the next five years is expected.” The study includes 15 leading economies, and **South Africa** is one of them.

Source: <https://www.careers24.com/career-advice/recruiting/job-losses-to-robots-by-2020-is-my-job-at-risk-to-a-robotic-worker-20160201>

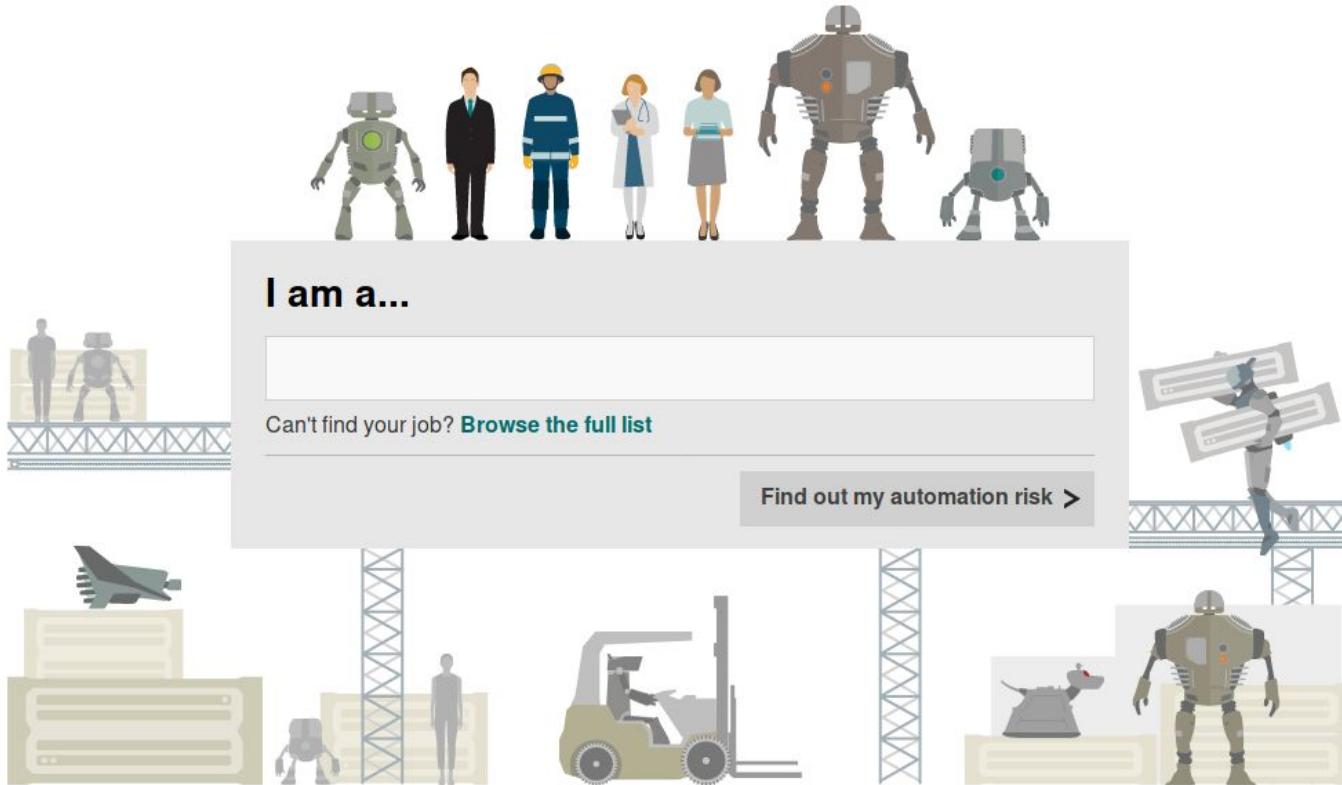
Belga

di 21 nov 03:16

# Artificiële intelligentie doet banen verdwijnen, maar creëert er minstens evenveel nieuwe

Door de toenemende automatisering en de opkomst van artificiële intelligentie (AI) zouden tegen 2030 tot 21 procent van de huidige banen in België kunnen verdwijnen. Maar als België de overgang goed aanpakt en zijn rol als digitale voorloper blijft spelen, kunnen er nog meer nieuwe jobs bij komen. Dat stelt een rapport van consultant McKinsey.

# Will a robot take your job?



<http://www.bbc.com/news/technology-34066941>

# Will a robot take your job?

Rank*	Job title	Automation Risk
1	Telephone salesperson	99.0%
2	Typist or related keyboard worker	98.5%
3	Legal secretary	97.6%
4	Financial accounts manager	97.6%
5	Routine inspector and tester	97.6%
5	Weigher, grader or sorter	97.6%
7	Sales administrator	97.2%
8	Book-keeper, payroll manager or wages clerk	97.0%
8	Finance officer	97.0%

# Will a robot take your job?

Rank*	Job title	Automation Risk
358	Senior professional at educational establishment	0.7%
359	Health services and public health manager or director	0.7%
360	Psychologist	0.7%
360	Therapy professional (other)	0.7%
362	Social services manager or director	0.7%
363	Speech and language therapist	0.5%
364	Education adviser and school inspector	0.4%
365	Hotel and accommodation manager or owner	0.4%
365	Publican or manager of licensed premises	0.4%

# Tencent says there are only 300,000 AI engineers worldwide, but millions are needed

A *new report* from the Chinese tech giant attempts to put a number on the AI talent shortfall

by [James Vincent](#) | [@jjvincent](#) | Dec 5, 2017, 1:37pm EST

<https://www.theverge.com/2017/12/5/16737224/global-ai-talent-shortfall-tencent-report>

**Every big startup over the next five years will have one thing in common: machine learning”**

Eric Schmidt - Google

# IT professional of the future

**howest**  
we develop people

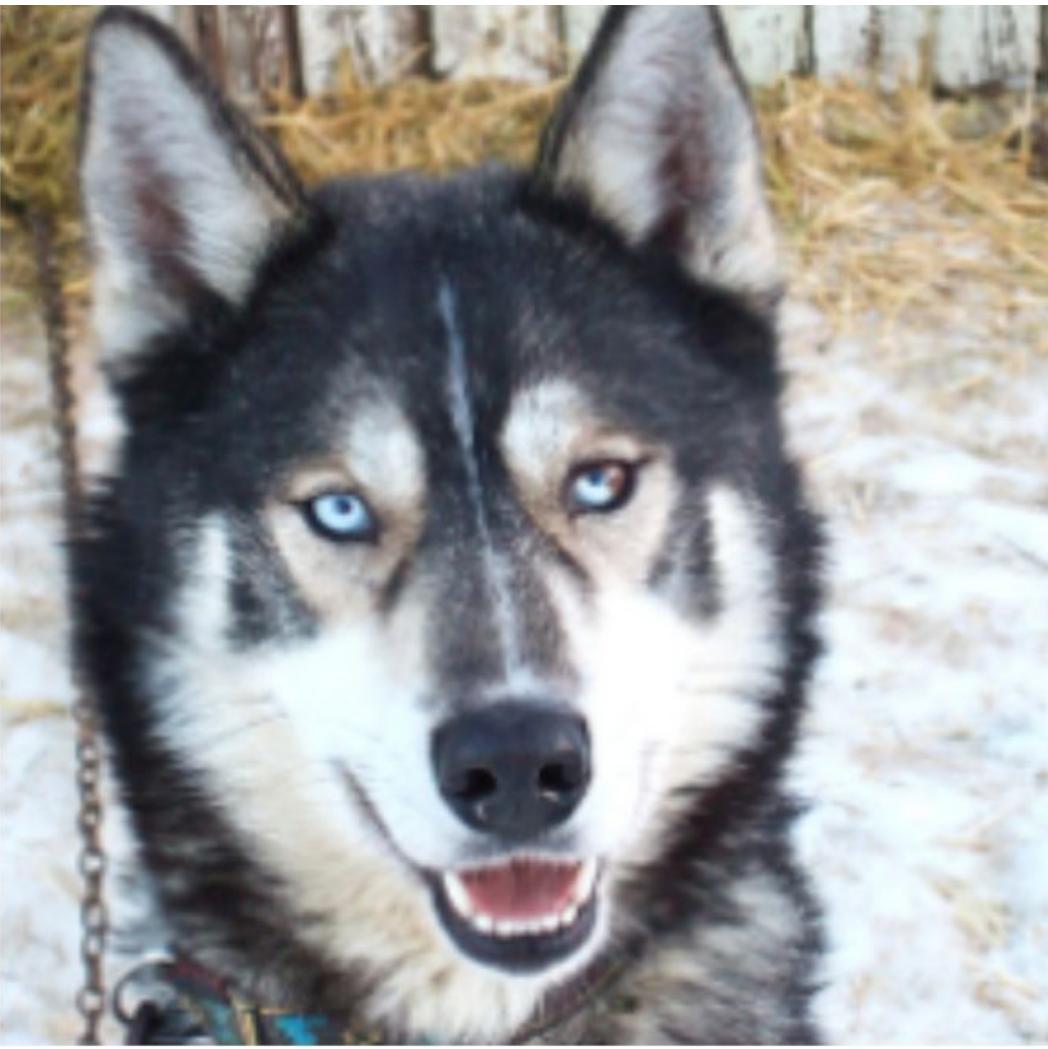


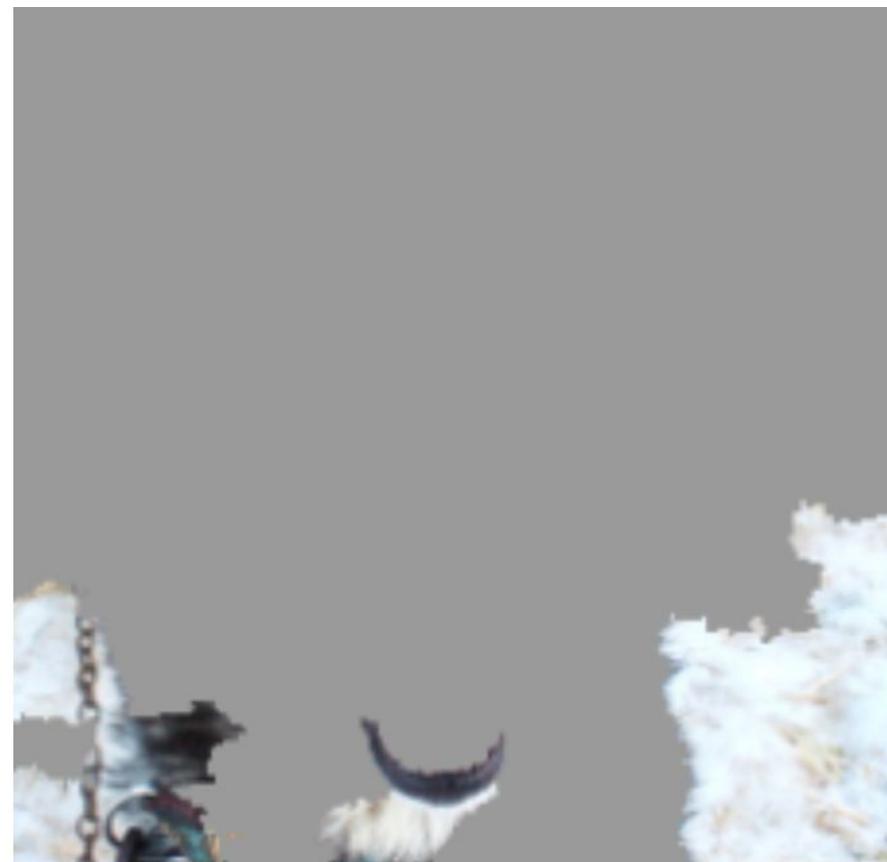
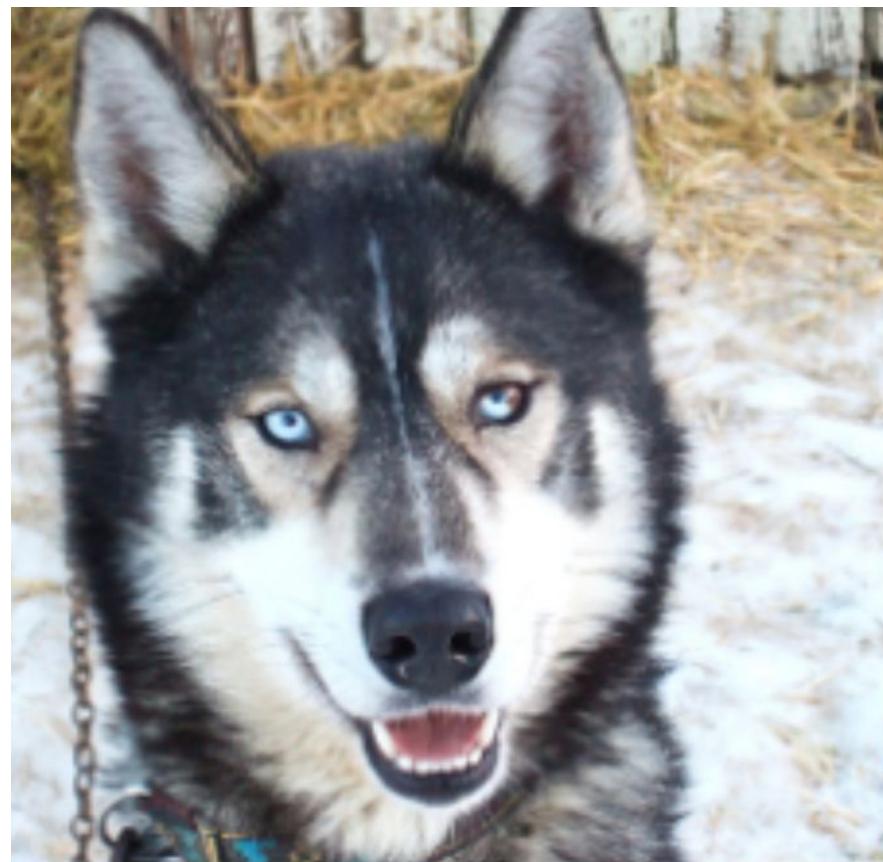
	1 NMCT	2 NMCT	3 NMCT			
Create	USER EXPERIENCE DESIGN  #ux #user #wireframe	USER INTERFACE DESIGN  #ui #design #photoshop	INTERACTION DESIGN  #interaction #dashboards	VISUALIZE & STORYTELLING  #visualize #storytelling	MIXED REALITY  #experimental project	STAGE + BACHELOR-PROEF
Code	BASIC PROGRAMMING  #principles #python	DEVICE PROGRAMMING 1  #html #css #javascript	DEVICE PROGRAMMING 2  #c# #xamarin #coding	ADVANCED PROGRAMMING & MATHS  #graphs #lineair algebra	IOT DEVICES PROGRAMMING  #lora #wearables	
Connect	COMPUTER NETWORKS  #dhcp #router #netwerk	DATA COMMUNICATION 1  #cryptography #coding	SECURITY  #privacy #beveiliging	MACHINE LEARNING  #neural networks	DEEP LEARNING  #dsp #neural networks	
Inform	DATA SCIENCE  #principles #data	DATA MANAGEMENT  #sql #databases #erd	CLOUD 1  #c# #cloud #asp.net	CLOUD 2  #hosting #webservice	ARTIFICIAL INTELLIGENCE & BIG DATA  #data engineering	
Integrate	PROTOTYPING  #elektriciteit #arduino	PROJECT 1  #integrate	PROJECT 2  #integrate	PROJECT 3  #integrate	START-UP  #integrate #businessplan	#ervaring #onderzoek
	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6

AI, THE HOLY GRAIL?

# Do you trust a black box?







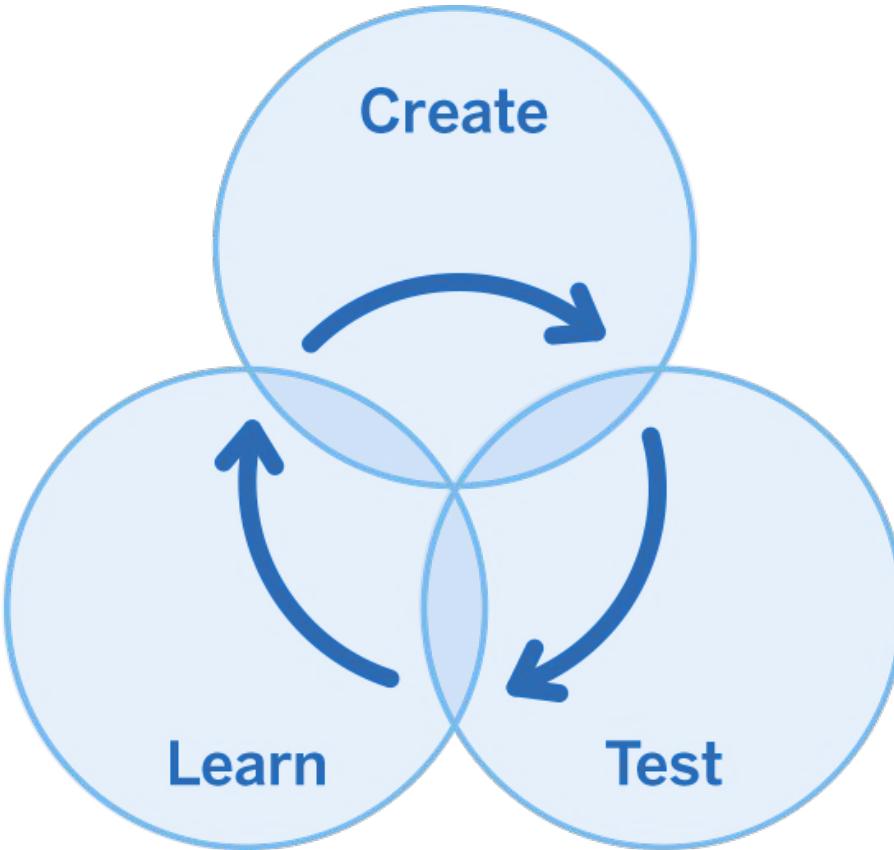
LET'S SOLVE THIS PROBLEM BY  
USING THE BIG DATA NONE  
OF US HAVE THE SLIGHTEST  
IDEA WHAT TO DO WITH



# Garbage = garbage out

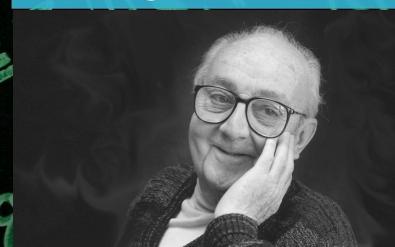


# Successful outcome is not guaranteed



# All models are wrong, but some are useful.

George E. P. Box



# Keep a human in the loop





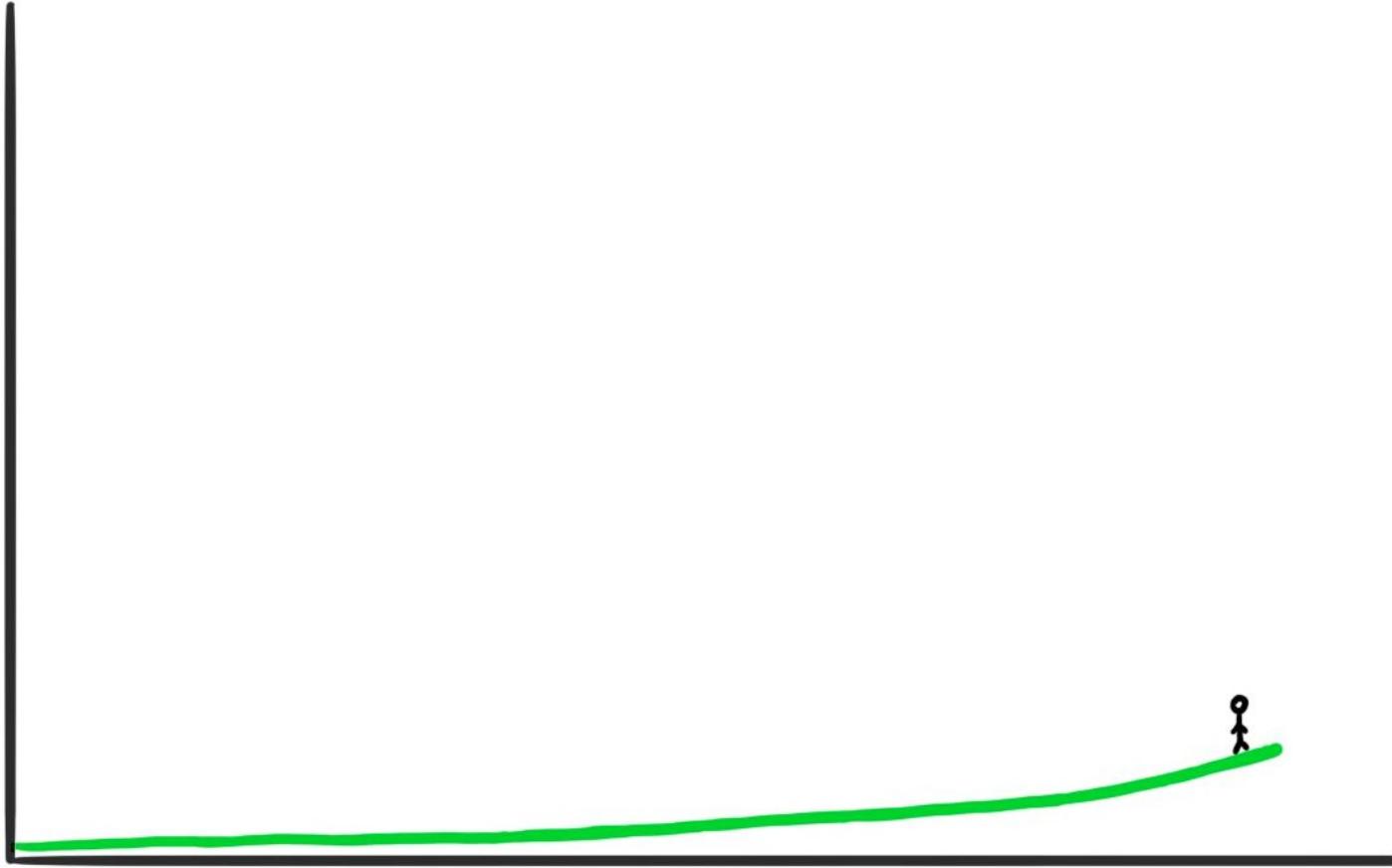
"Your recent Amazon purchases, Tweet score and location history makes you 23.5% welcome here."





# Augmented intelligence

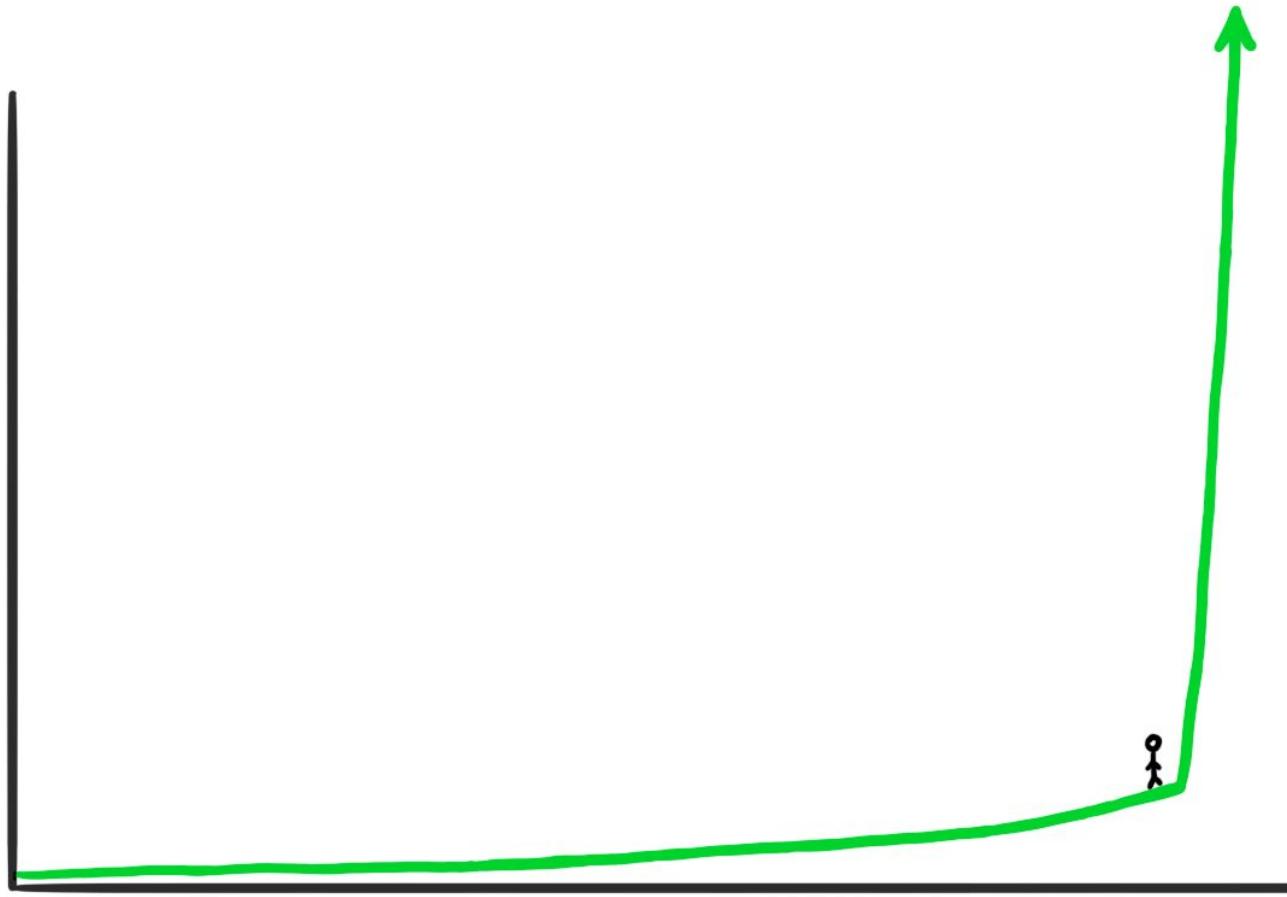
Human Progress



Time

Human Progress

Time



## HUMAN

Embed ethical considerations in design and development

Empower people to shape their own future

Have human values drive technical development and use

## ECONOMIC

Avoid fines (personal data)

Reuse data and algorithms

Biased data brings biased results

Start with low hanging fruit and find the most valuable use cases for you and society

## SOCIAL

Strive to make the New Economy work for everyone

Contribute to even distribution of benefits

Create jobs through AI

Use AI and information to create more transparency



## ENVIRONMENTAL

Use AI to reduce greenhouse gas emissions

Use AI to drive general sustainability

Use AI to optimize use of resources