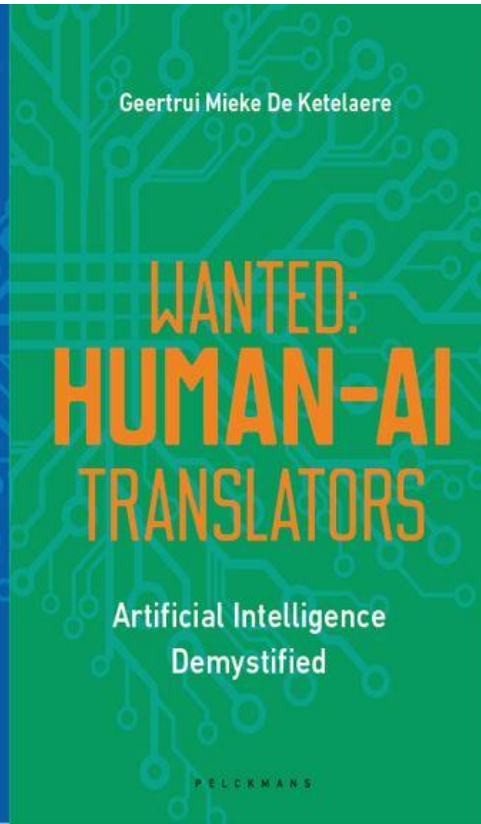
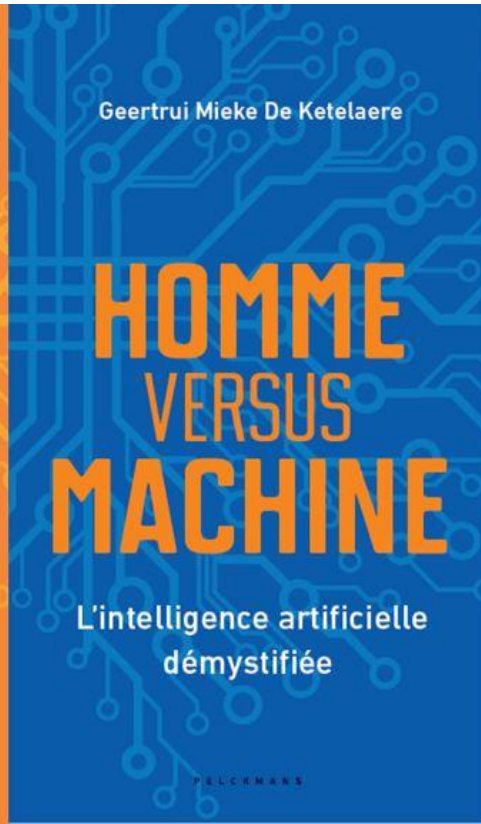
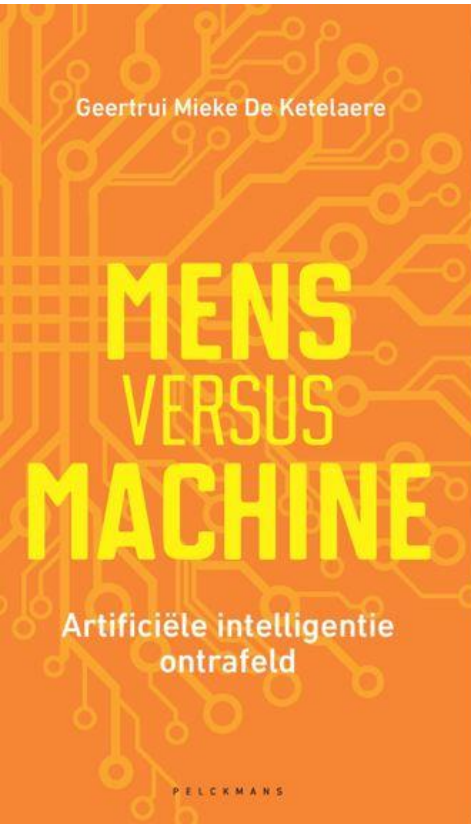
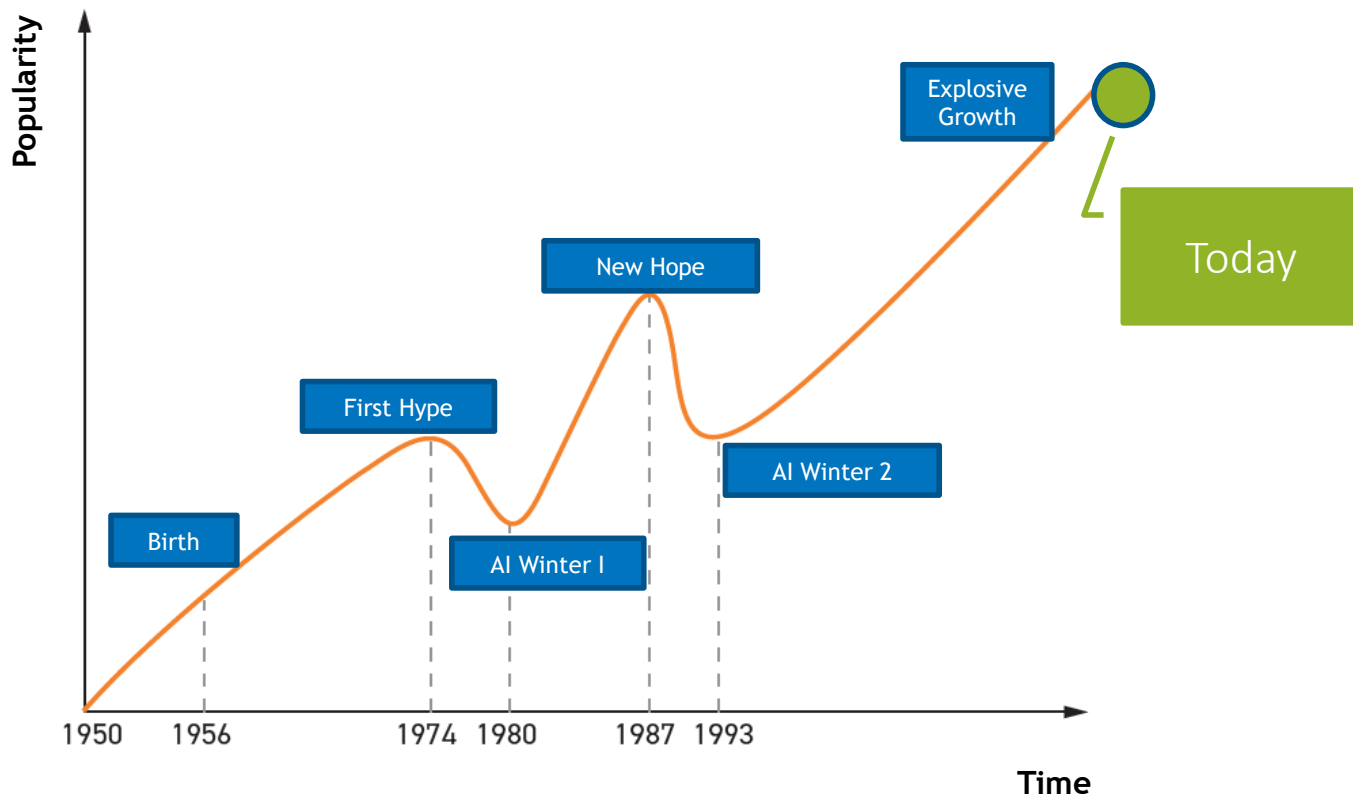


AI IN MARKETING & COMMUNICATIONS

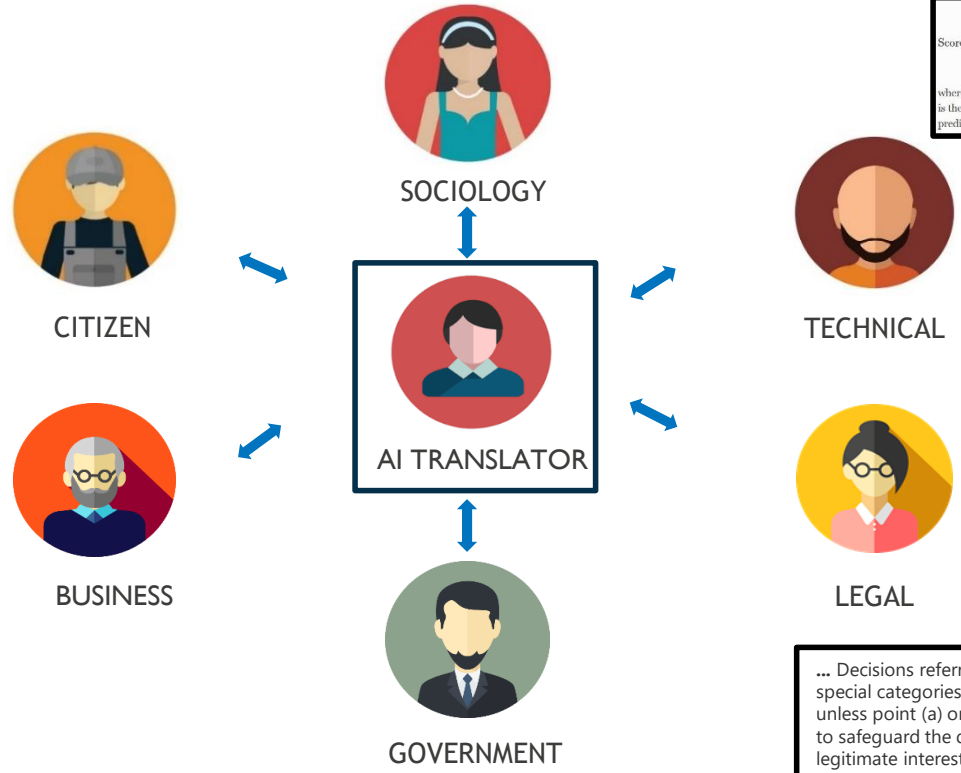
G. M. De Ketelaere, Author



A little History



Wanted: Human AI Translators



$$\text{Score}(U_i, v) = \left(r_{ui} + \frac{\sum_{U_j \in \mathcal{N}(U_i)} \text{Sim}(U_i, U_j) (r_{U_j v} - \bar{r}_{uj})}{\sum_{U_j \in \mathcal{N}(U_i)} \text{Sim}(U_i, U_j)} \right) f \quad (6)$$

where $f = \exp\{-1 + \alpha(\bar{r}_{ui} - \bar{r}_{uj})\}$, \exp represents the exponential function based on e , \bar{r}_{ui} is the average of U_i , r_{uj} is score of U_j to v , α is the attenuation factor, and $\text{Score}(U_i, v)$ is the prediction score of U_i to v .

... Decisions referred to in paragraph 2 shall not be based on special categories of personal data referred to in Article 9(1), unless point (a) or (g) of Article 9(2) applies and suitable measures to safeguard the data subject's rights and freedoms and legitimate interests are in place ...

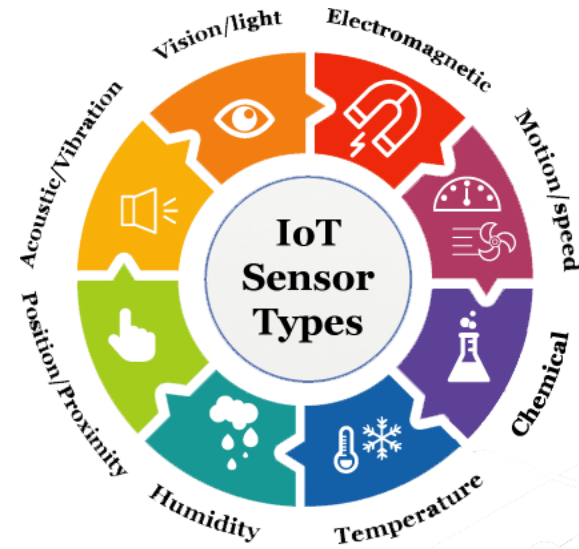
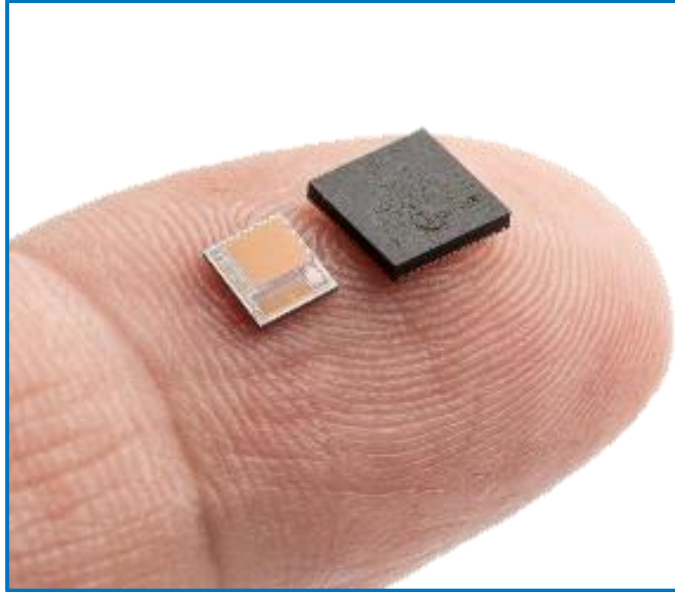
Focus on Customer Experience & Loyalty



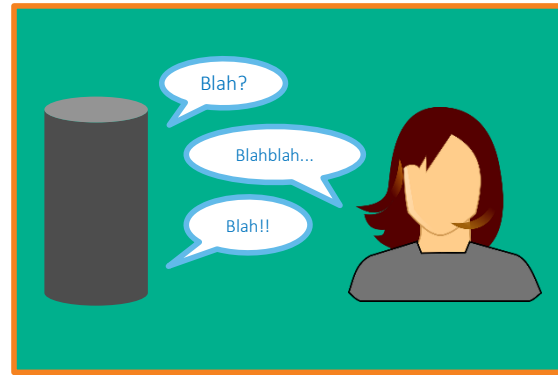
The Customer DNA



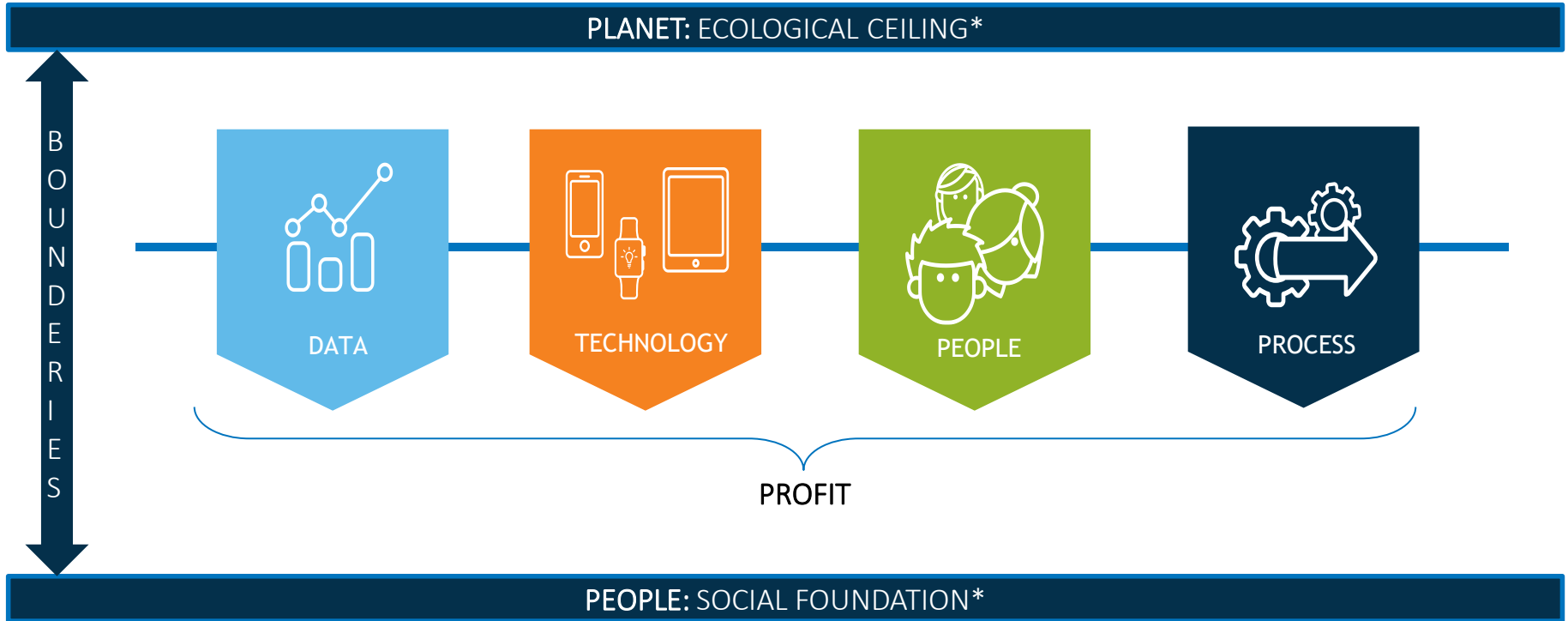
Smaller, more complex, faster and less power



Marketing & Communications: Autonomous Actions

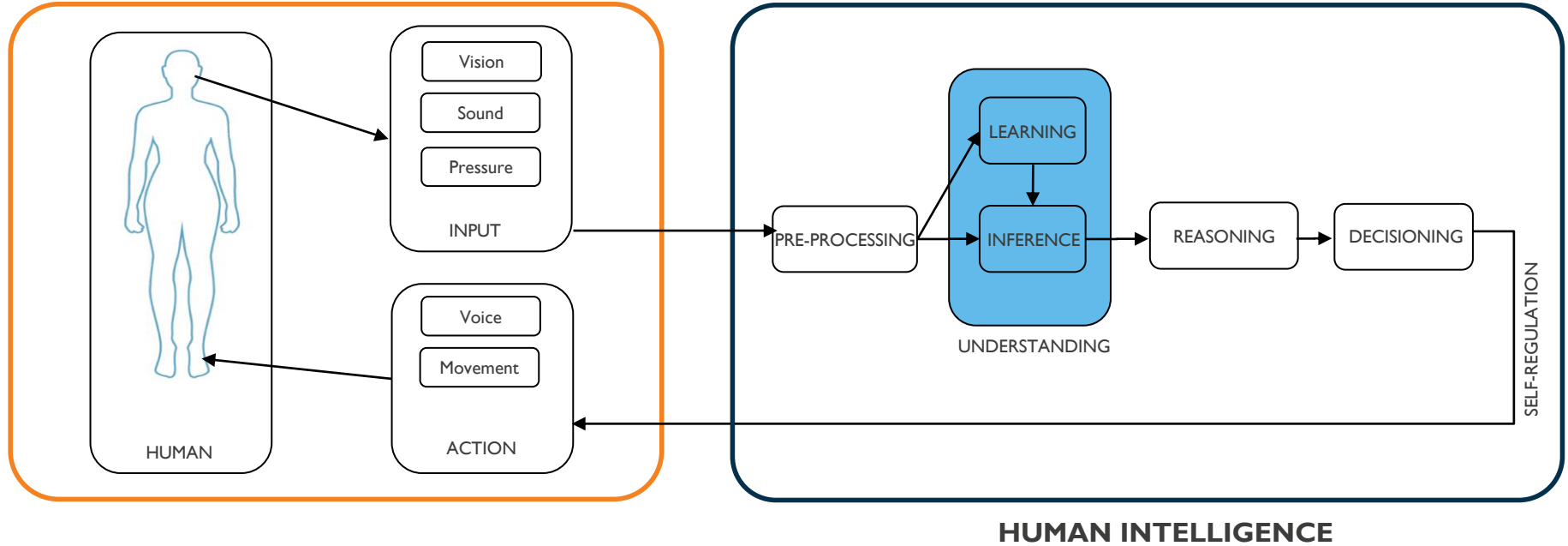


A New Focus

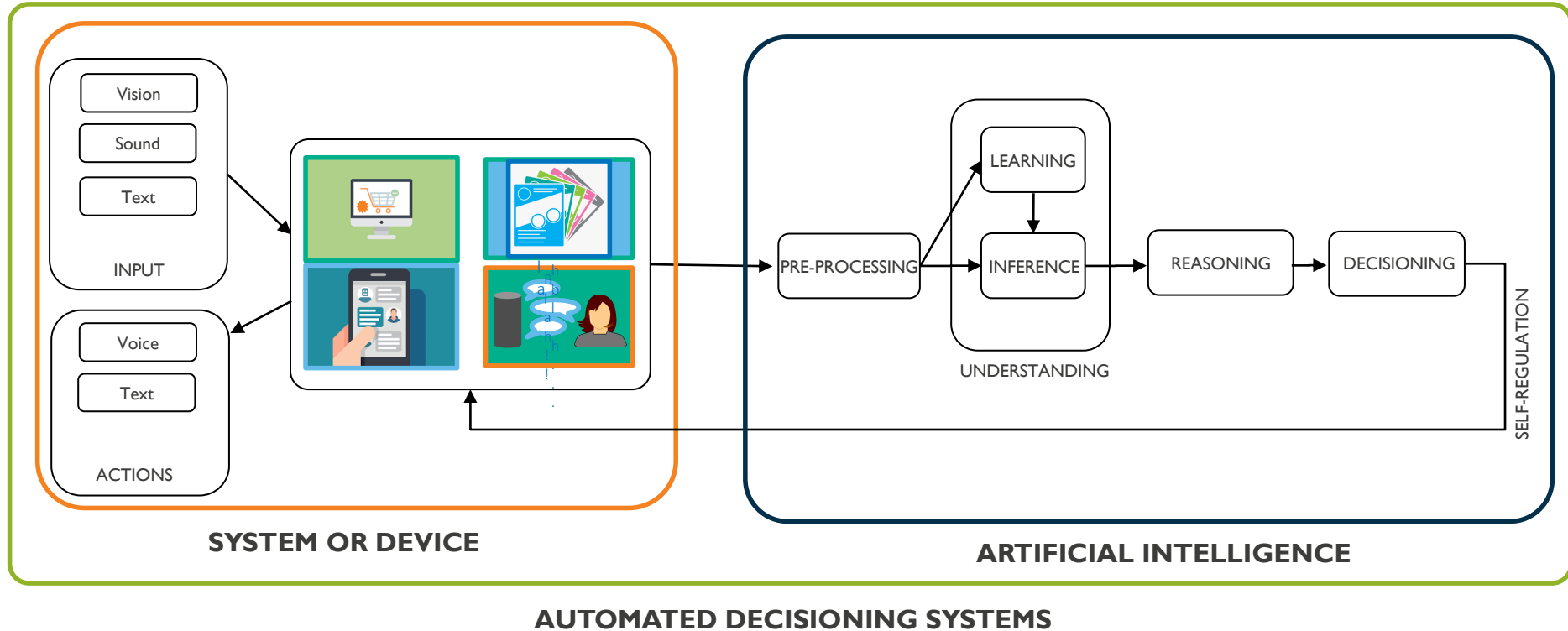


* Donut Economics

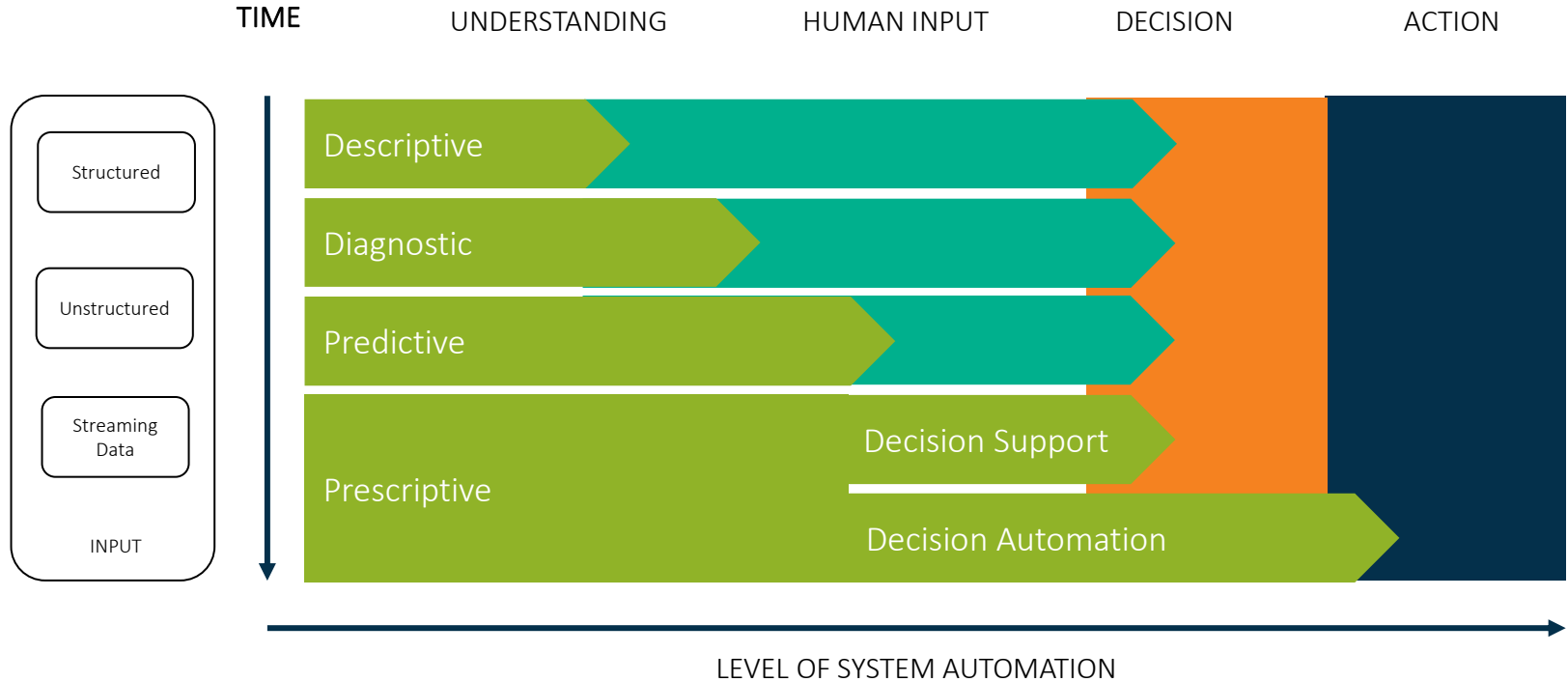
The Original Dream



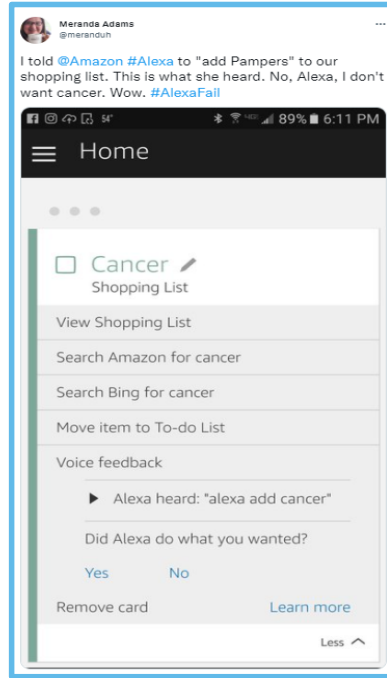
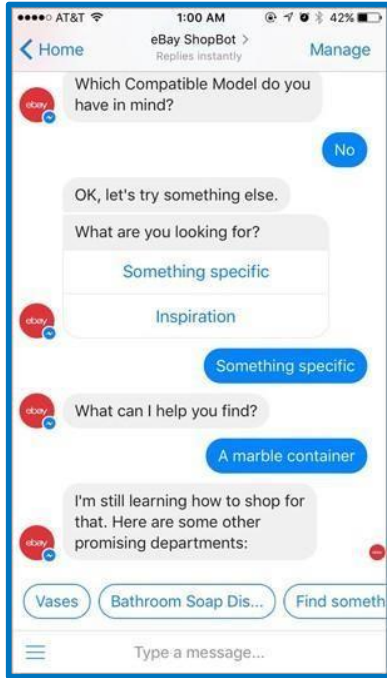
AI Systems Today



The Evolution of Autonomous Systems



Welcome to AI Land



Welcome to AI Land

◆ Telegraph.co.uk

Uber stops developing driverless cars as it sells off technology

Uber has dropped plans to build its own driverless car and has sold the division developing the technology to a US start-up, after repeated ...

1 day ago



POLICY \ BUSINESS \ TECH \

IBM will no longer offer, develop, or research facial recognition technology

IBM's CEO says we should reevaluate selling the technology to law enforcement

By Jay Peters | @jaypeters | Jun 8, 2020, 8:49am EDT

BI Business Insider

Google tried to ease employee tension in meeting over ousted AI ethicist

Google held a meeting Tuesday with employees to discuss the ousting of Timnit Gebru, a prominent AI ethicist who said she was fired last ...

19 hours ago



Understanding the Issues



THE GOOD



THE BAD



THE UGLY

AI Anno 2022

	HUMAN INTELLIGENCE	ARTIFICIAL INTELLIGENCE
1. Speed of processing		X
2. Knowledge Transfer		X
3. Decision Accuracy		X
4. Operational Modus		X
5. Size of storage	X	
6. Energy Usage	X	
7. Parallel Processing	X	

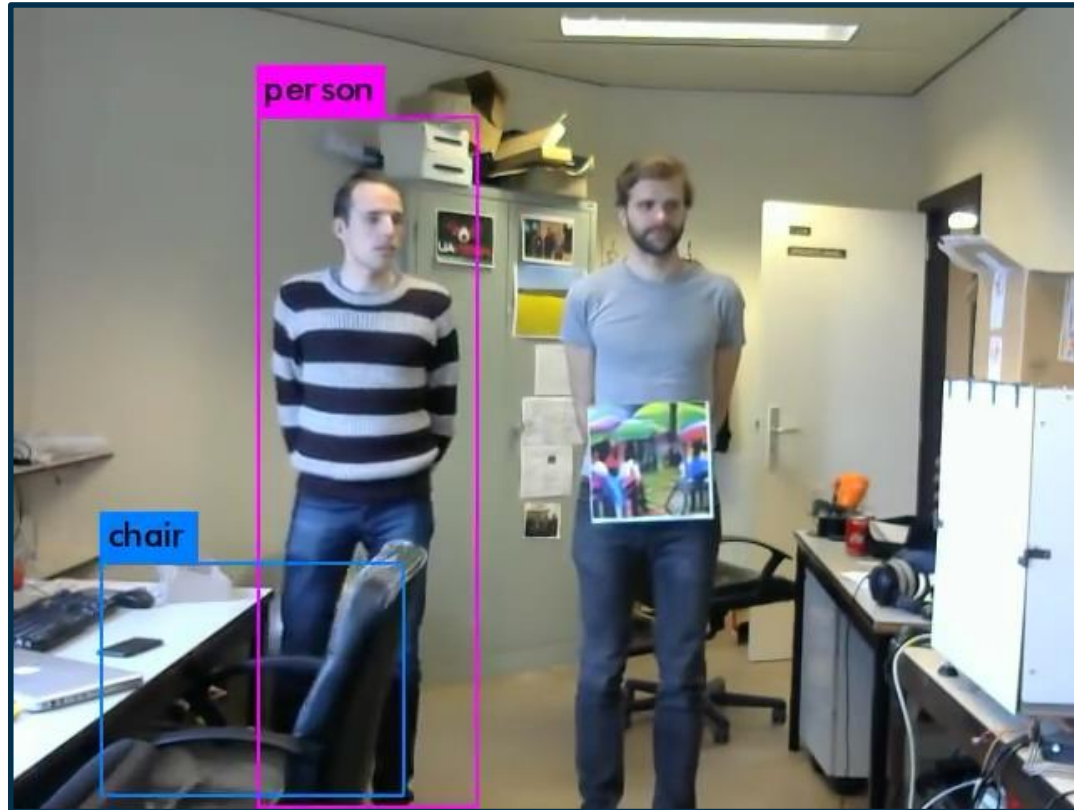
AI Anno 2022

	HUMAN INTELLIGENCE	ARTIFICIAL INTELLIGENCE
8. Adapt to Change	X	
9. Type of Input Data	X	
10. Physical Collaboration	X	
11. Human Dialogues	X	
12. Creativity	X	
13. Emotions	X	
14. Consciousness	X	
15. Ethics (Bias)	X	X
16. Ethics (Noise)	X	X

Lacking Common Sense



Lacking Common Sense

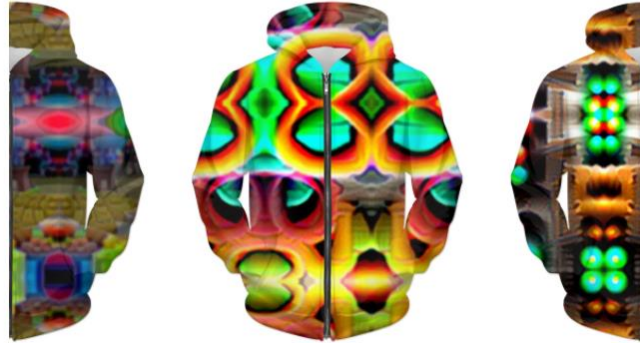


Lacking Common Sense

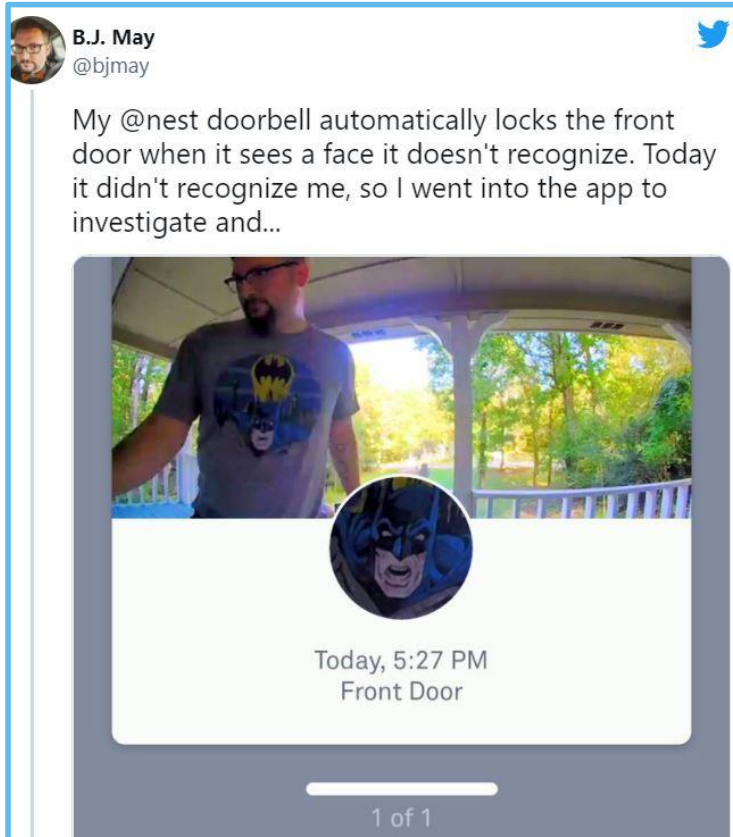
These Hoodies Make You 'Invisible' to Some Surveillance Algorithms

They were created by researchers from Facebook and the University of Maryland

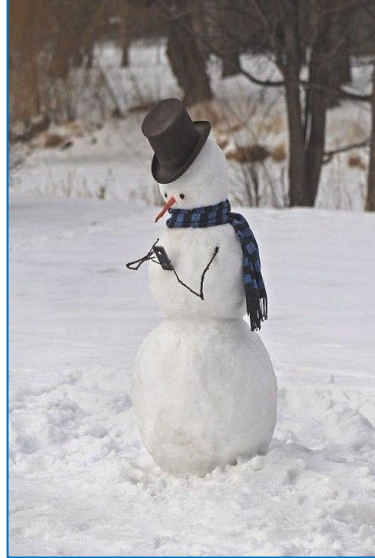
 Dave Gershgorn Aug 6, 2020 · 3 min read



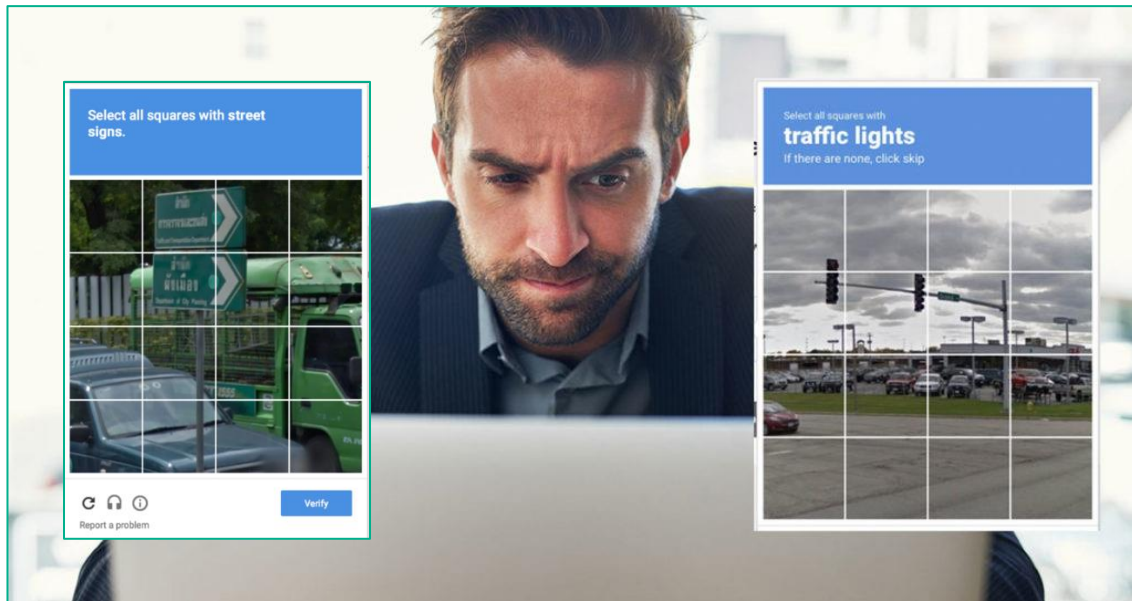
Lacking Common Sense



Lacking Concepts & Abstraction



Lacking Concepts & Abstraction



Correlations versus Causality



[If AI's So Smart, Why Can't It Grasp Cause and Effect? | WIRED](#)

Understanding Changing Context

Artificial intelligence / Machine learning

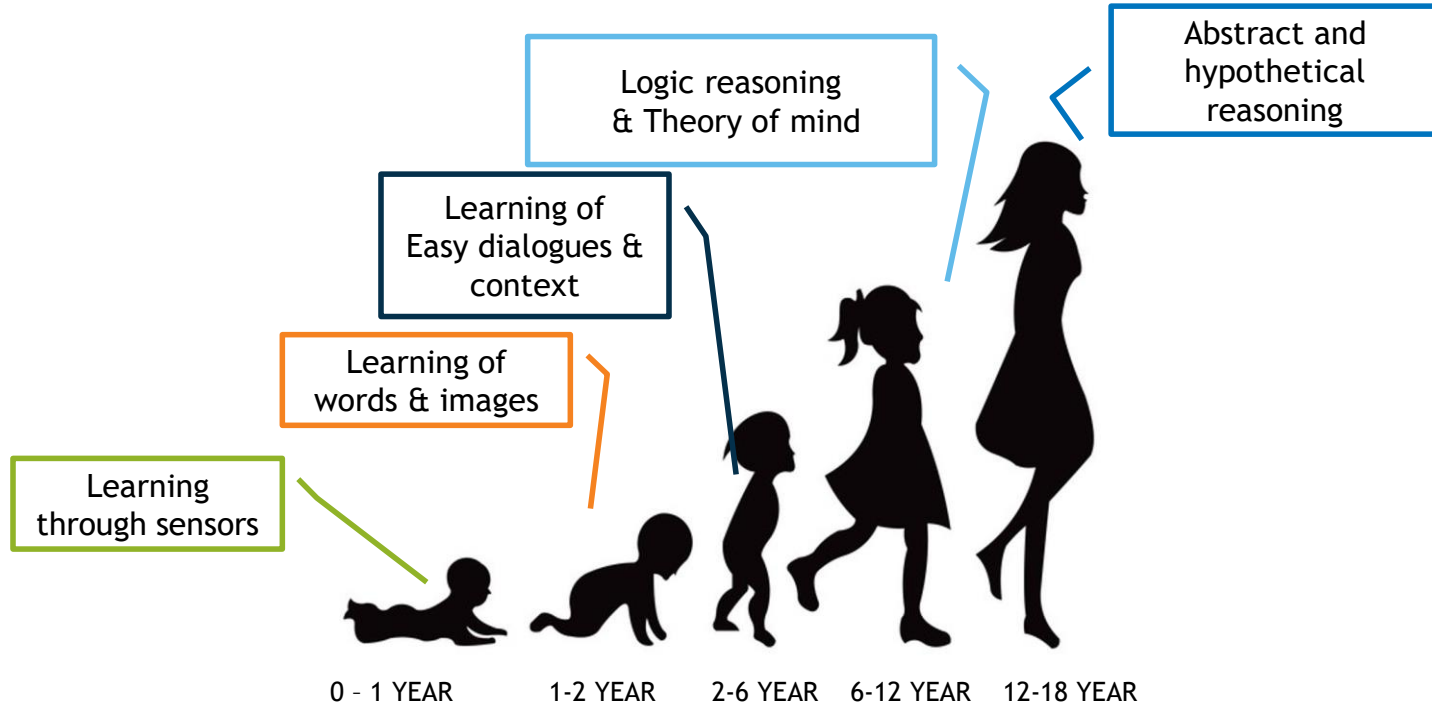
Our weird behavior during the pandemic is messing with AI models

Machine-learning models trained on normal behavior are showing cracks — forcing humans to step in to set them straight.

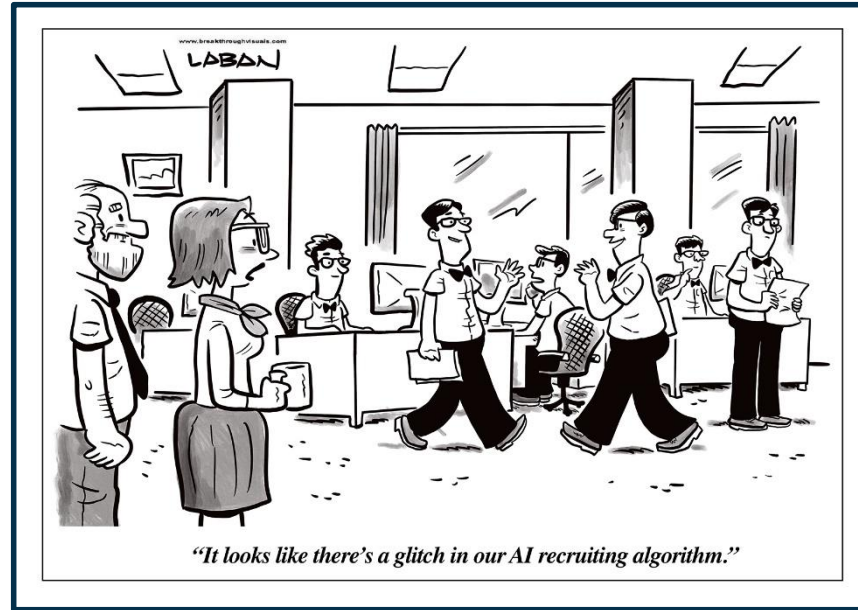
by **Will Douglas Heaven**

May 11, 2020

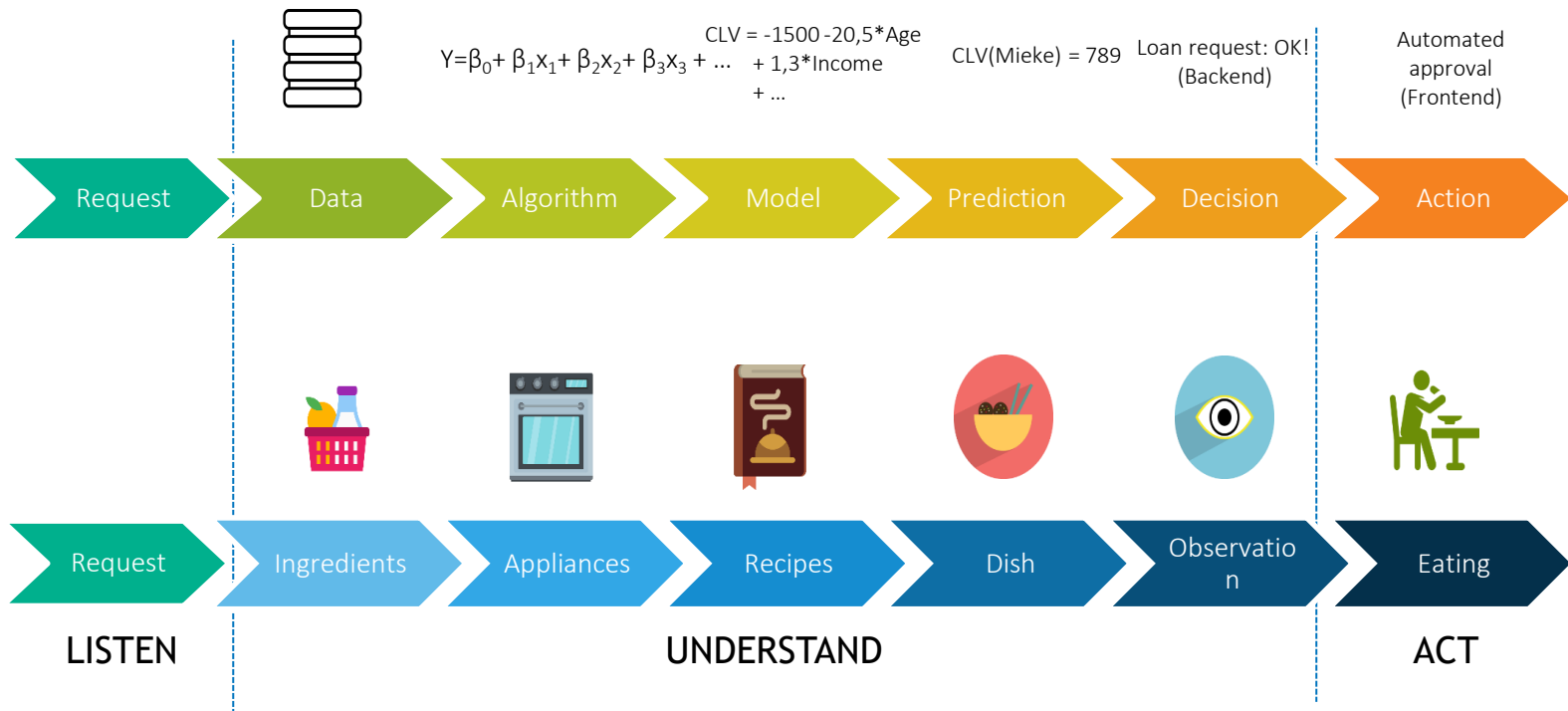
Human Learning



The Bad




The Process



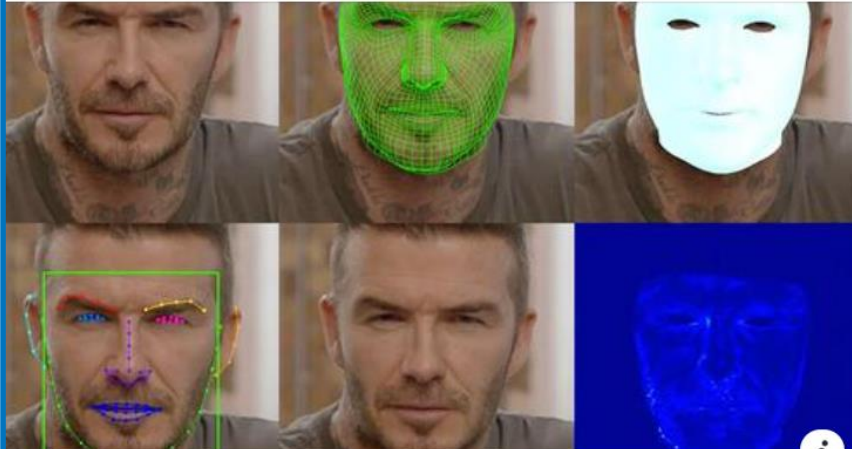
The Ugly



The Power of Autogeneration: Deepfakes


 Respeecher
16 February 2021 · 🌐

A 2018 Zalando campaign featuring model Cara Delevingne across 290,000 localised ads was achieved using deepfake technology to produce a range of alternative shots and voice fonts. Now, as the algorithms for manipulating and synthesising media become more powerful, the fashion sector is beginning to take notice.
<https://www.voguebusiness.com/.../how-deepfakes-could...> #deepfakes #advertising

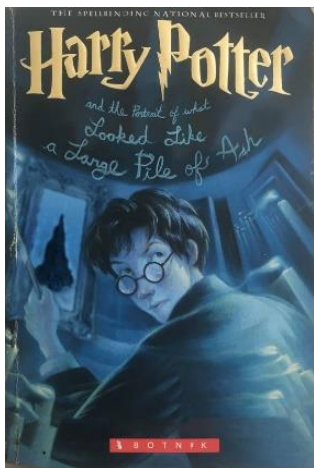


VOGUEBUSINESS.COM

How deepfakes could change fashion advertising
Deepfakes are moving out of the darker corners of the internet. Tech experts pre...



The Power of Autogeneration: Text to Text



AUTOGENERATED BOOKS

/ Automated translation is hopelessly sexist, but don't blame the algorithm or the training data

by Nicolas Kayser-Bril

Automated translation services tend to erase women or reduce them to stereotypes. Simply tweaking the training data or the models is not enough to make translations fair.

STORY 29 MARCH 2021 #LANGUAGEPROCESSING



The Power of Autogeneration: Image to Image



<http://makemeazombie.com>

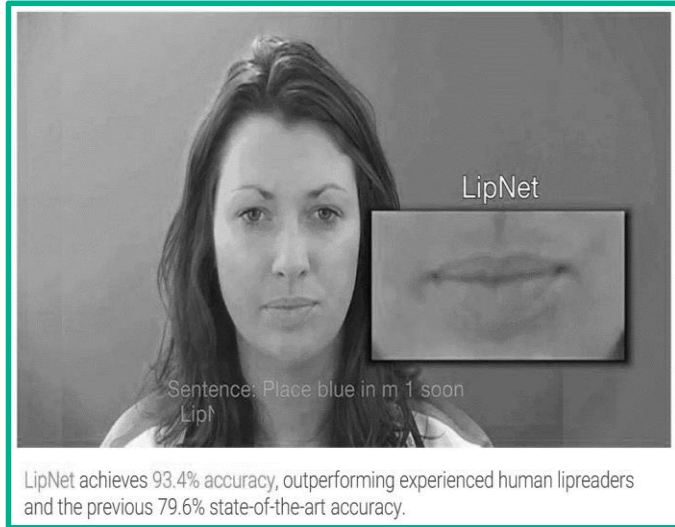
Deep Learning Malware Can Fake Cancer on Medical Images

A deep learning algorithm successfully penetrated a healthcare organization and fooled both humans and an AI system with faked medical images.



Source: Thinkstock

The Power of Autogeneration: Voice to Text



AUTOGENERATED TEXT FROM VOICE

Instagram videos get auto-generated captions: All you need to know

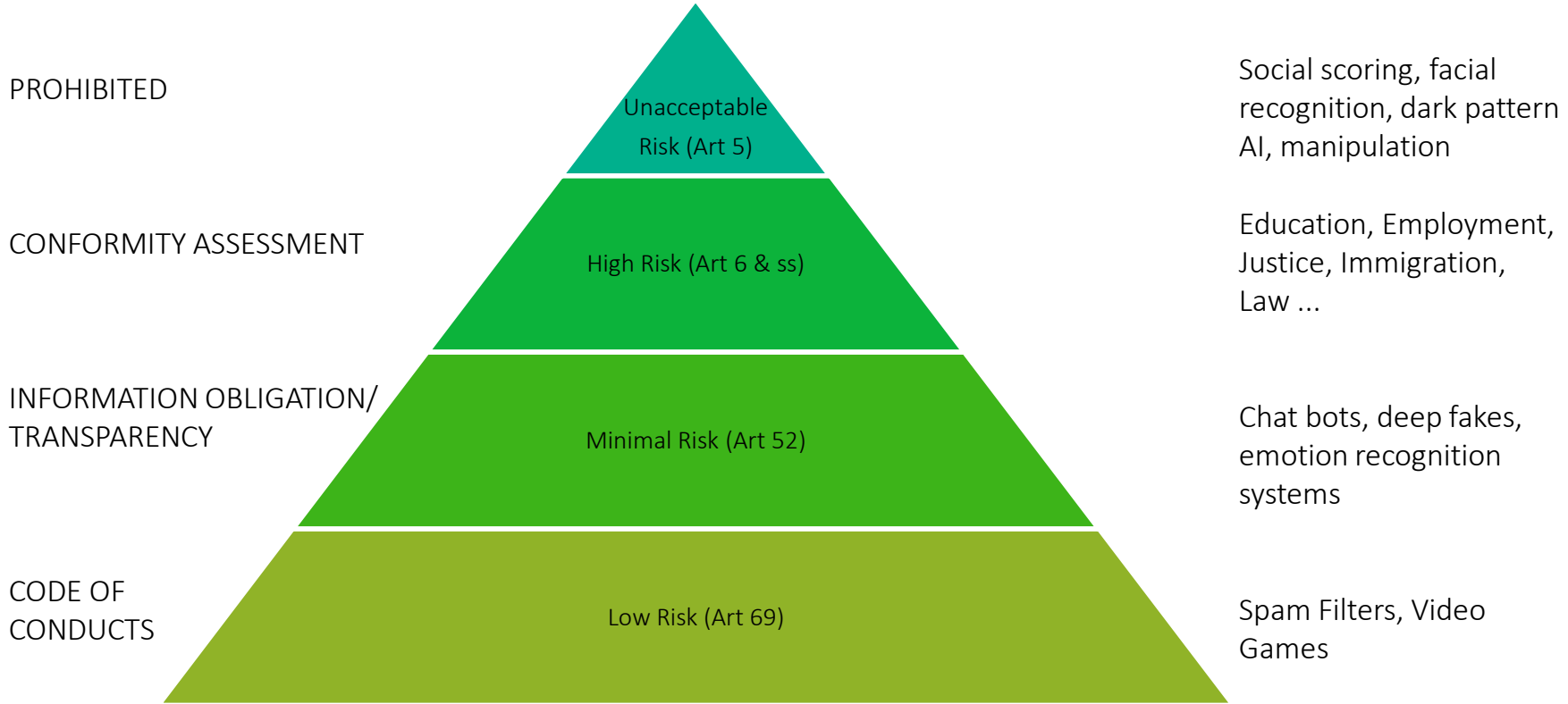
Here's all you need to know about Instagram's latest feature.

By: [Tech Desk](#) | Mumbai |
March 2, 2022 2:14:18 pm

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The AI Regulation



THANK YOU!

G. M. De Ketelaere, Author

