

GS1 Innovation Café

Artificial Intelligence for better data quality



14 November 2019

Agenda

15:00 - Welcome by the chairman of the GS1 Innovation Committee

Wouter Schaekers - Supply Chain Innovation & Sustainability Procter & Gamble

15:05 - AI and Data Quality

Jan Merckx - Innovation Manager, GS1 Belgilux Mayra Castellanos - Innovation Manager, GS1 Germany

15:30 - From the GS1 Research Labs

Klaus Fuchs - Auto-ID Labs, ETH Zürich

16:00 - The use of AI at GS1

Eelke van der Horst - Data Scientist, GS1 Netherlands

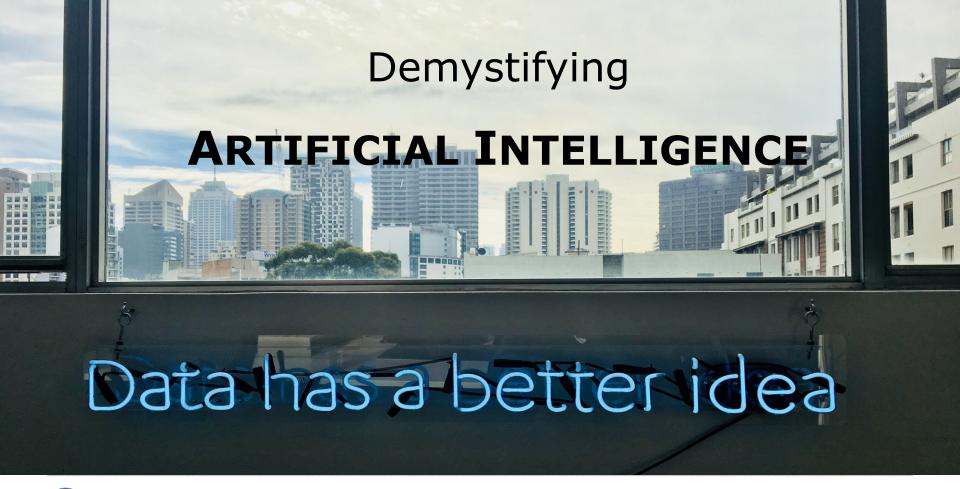
16:15 - Smart with Food

Ellen Verhasselt - International Business Development, Smart With Food

16:30 - Q&A

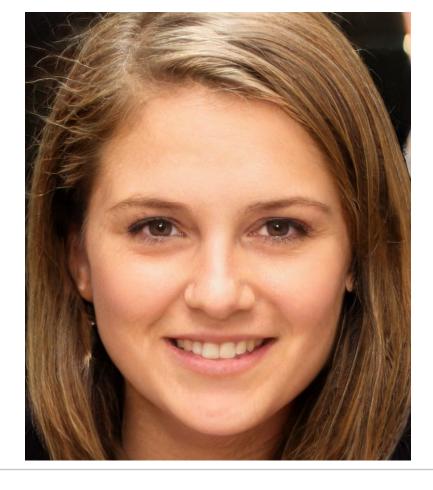
17:00 - Networking reception

























https://thispersondoesnotexist.com/





People saying AI will take over the world

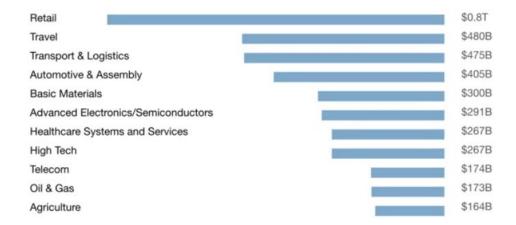
My Neural Network



Why AI?

AI value creation by 2030

\$13 trillion



[Source: McKinsey Global Institute.]



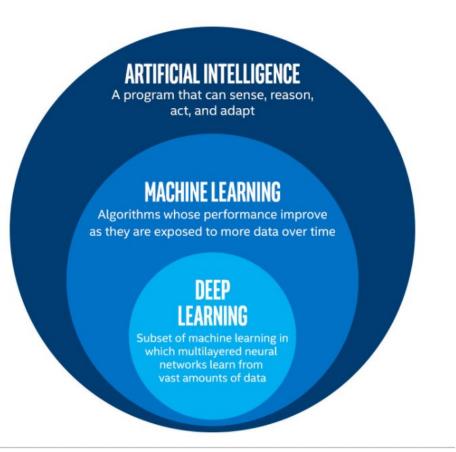
But what does AI mean?







Artificial Intelligence
vs
Machine Learning
vs
Deep Learning
vs
Neural Networks









What can Machine Learning do TODAY?



Andrew Ng: Stanford University, Google Brain, Coursera

"If a typical person can do a mental task within less than one second of thought, we can probably automate it using Machine Learning either now or in the near future"

- AI for Everyone, Coursera



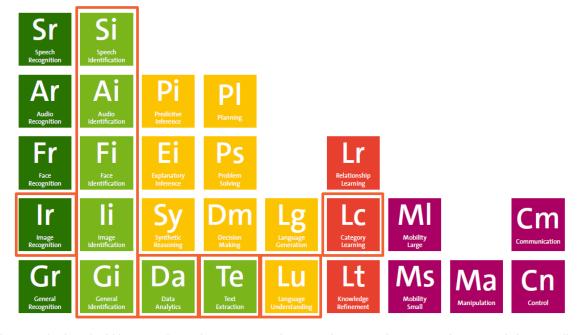


Machine Learning: A to B Mapping

Input (A)	Output (B)	Application
email ->>	spam? (0/1)	spam filtering
audio>	text transcript	speech recognition
English>	Chinese	machine translation
ad, user info>	click? (0/1)	online advertising
image, radar info 🛶	position of other cars	self-driving car
image of phone -	defect? (0/1)	visual inspection



The Periodic Table of AI Elements



Source: https://www.bitkom.org/Bitkom/Publikationen/Digitalisierung-gestalten-mit-dem-Periodensystem-der-Kuenstlichen-Intelligenz



... it's all about **DATA QUALITY**

An ML algorithm is only as good as the data you feed it with

Key Problems for Machine Learning are:

- Data bias
- Wrong labeling of data
- Messy and unstructured data
- Not enough data







Use Cases







Use Cases



Categorization (Customer Service Management)



Reach out!

Website

https://www.gs1-germany.de/innovation/

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