



ARTIFICIAL INTELLIGENCE CENTER  
@OLG

*“KI in der Justiz –  
Standortbestimmung und  
Ausblick*”

@Alois Krtil/CEO ARIC

05.06.2024





How can I help you today?

**Help me study**

vocabulary for a college entrance exam

**Give me ideas**

about how to plan my New Years resolutions

**Write a course overview**

psychology behind decision-making

**Brainstorm names**

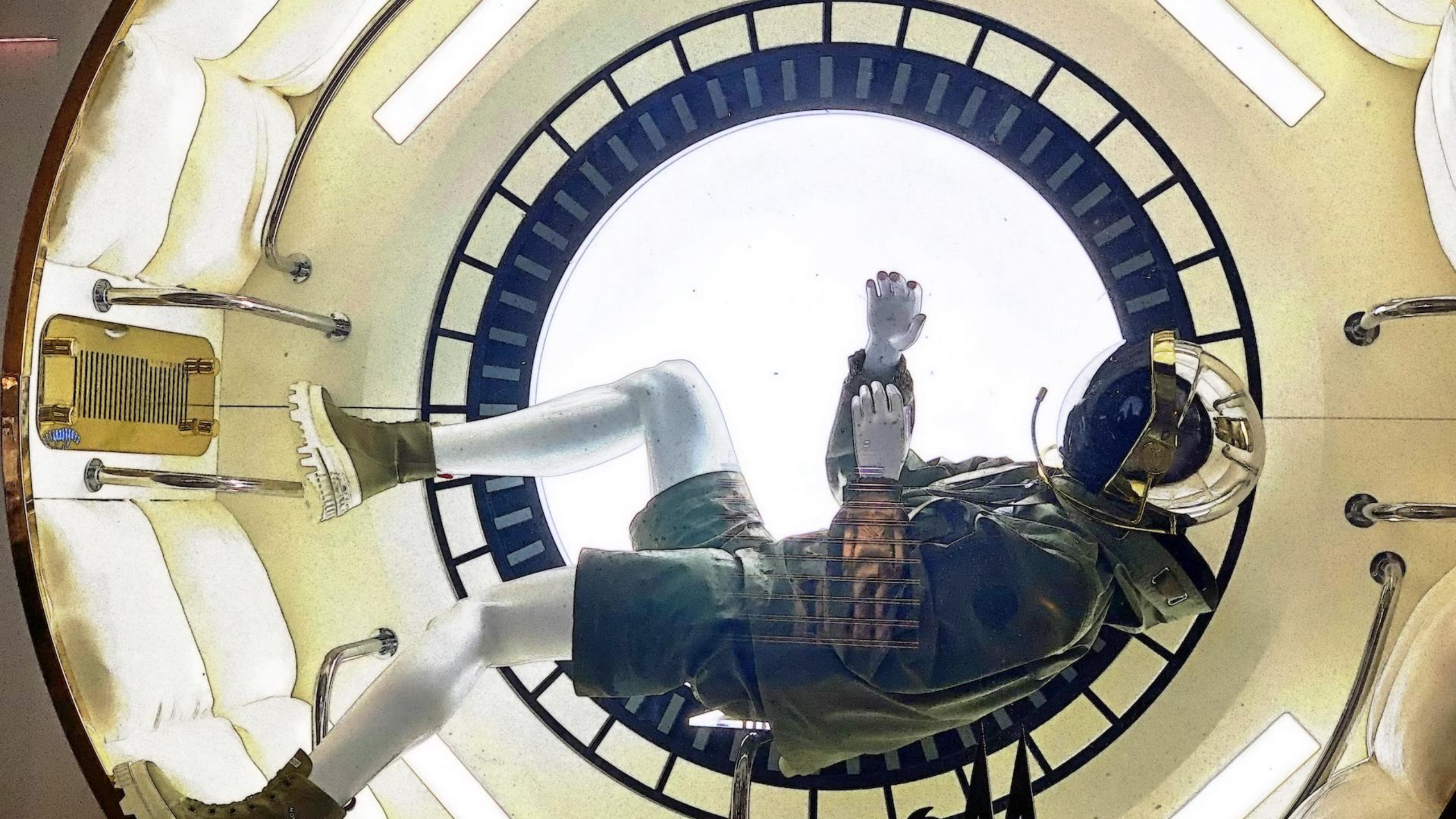
for my fantasy football team with a frog theme

Message ChatGPT...



ChatGPT can make mistakes. Consider checking important information.













EDITORS' PICK

# Goldman Sachs Predicts 300 Million Jobs Will Be Lost Or Degraded By Artificial Intelligence

Jack Kelly Senior Contributor

*I write actionable interview, career and salary advice.*

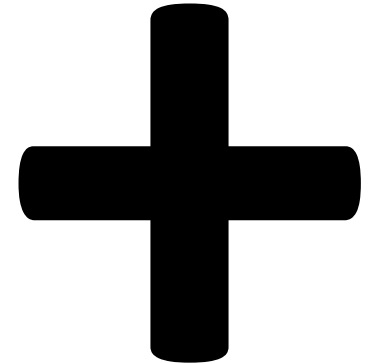
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Mar 31, 2023, 10:48am EDT



Companies—whether they are McDonald's, introducing self-serve kiosks and firing hourly workers to ... [+] GETTY





“While the tool may be able to provide quick and easy answers to questions, it does not build critical-thinking and problem-solving skills, which are essential for academic and lifelong success,” Jenna Lyle, a spokeswoman for the New York City Department of Education, Washington Post January 2023.



**Italy has become the first Western country to block advanced chatbot ChatGPT.** “The Italian data-protection authority said there were privacy concerns relating to the model, which was created by US start-up OpenAI and is backed by Microsoft.” BBC News Online, 01.04.2023

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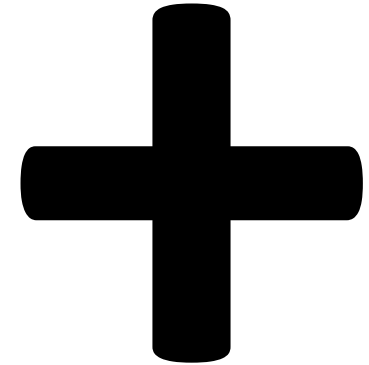
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“AI is one of the most profound things we’re working on as humanity. It’s more profound than fire or electricity”  
Sundar Pichai, Google 2022



**ChatGPT is going to change education, not destroy it!** “ChatGPT is just another example of why we can’t keep doing things the old way for schools in the modern world.” MIT Technology Review, April 2023

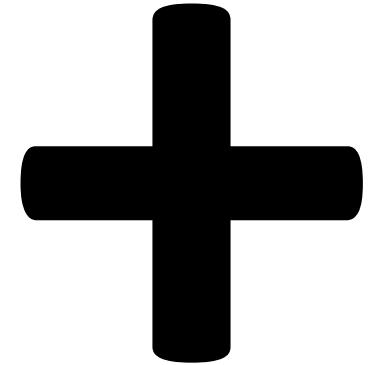
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The image shows a screenshot of a BBC News article. At the top, the BBC logo is visible on the left, and navigation links for Home, News, Sport, Reel, and Worklife are on the right. Below the logo, the word 'NEWS' is written in large white letters on a red background. Underneath, there are sub-navigation links: Home, War in Ukraine, Climate, Video, World, UK, Business, Tech, Science, and Stories. The article title is 'Artificial intelligence could lead to extinction, experts warn', dated '5 hours ago' with a 'Comments' icon. A red share icon is visible below the title. The main image shows a man with long red hair holding a cardboard sign that reads: "THIS IS AN EXISTENTIAL RISK" - GEOFFREY HINTON. The sign is reflected on the ground below.

“AI is one of the most profound things we’re working on as humanity. It’s more profound than fire or electricity” Sundar Pichai, Google 2022



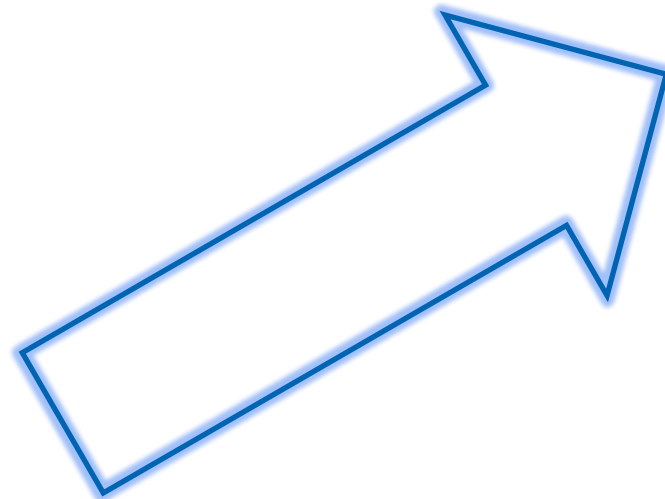
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e.g., ChatGPT:  
>100 M User in 2 month

- focused on classification
- supervised learning
- convolutional networks
- millions of parameters

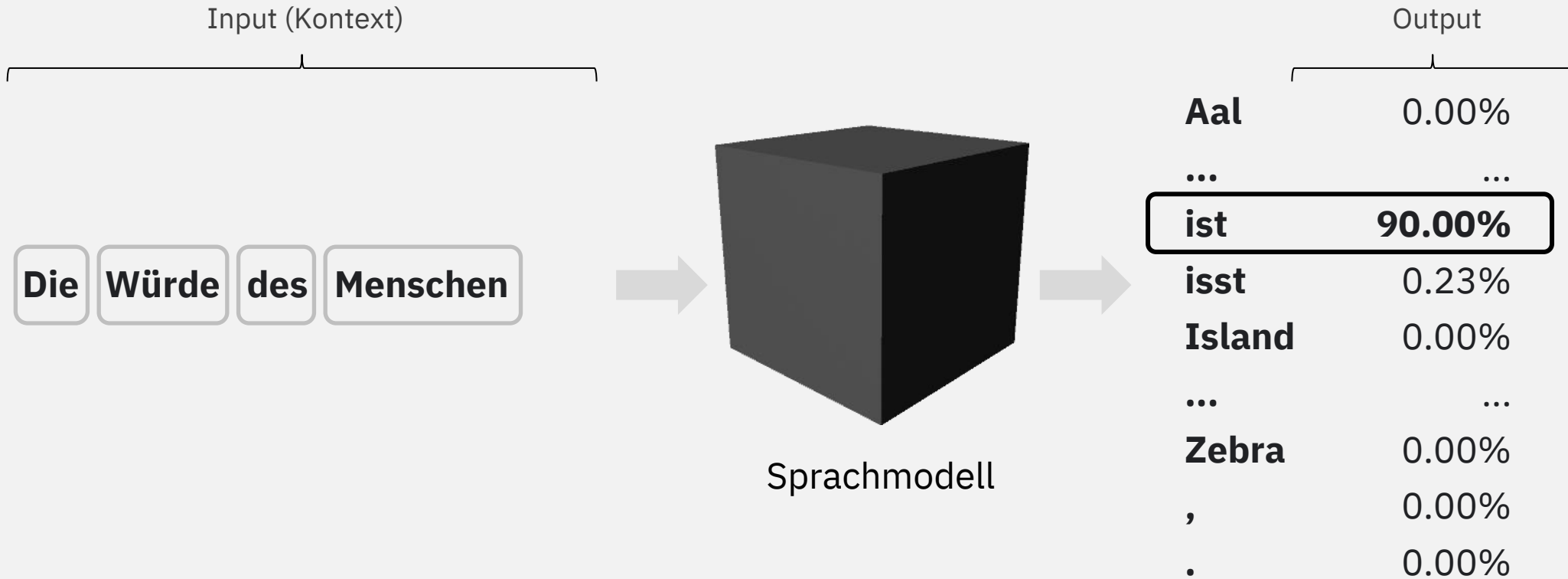
**„Era of Labeling”**  
2012-2017



**„Era of Generation”**  
2018-present

- focused on generation
- self-supervised learning
- transformer networks (based on self-attention),  
diffusion models
- billions of parameters

Genaugenommen schätzt ein Sprachmodell für jedes Wort in einem Vokabular die Wahrscheinlichkeit, dass es das nächste ist – und wählt dann Eines











Midjourney v.5





ALISTAR



Text 2 Video

<https://www.youtube.com/watch?v=Geja6NCjgWY>

## Plugin store



Speak

Uninstall

Learn how to say anything in another language with Speak, your AI-powered language tutor.



Milo Family AI

Uninstall

Curating the wisdom of village to give parents ideas that turn any 20 minutes from meh to magic.



Expedia

Uninstall

Bring your trip plans to life – get there, stay there, find things to see and do.



KAYAK

Uninstall

Search flights, stays & rental cars or get recommendations where you can go on your budget.



OpenTable

Uninstall

Allows you to search for restaurants available for booking dining experiences



Instacart

Uninstall

Order from your favorite local grocery stores.



FiscalNote

Uninstall

FiscalNote enables access to select market-leading, real-time data sets for legal, political, and regulatory...



Klarna Shopping

Uninstall

Search and compare prices from thousands of online shops



Wolfram

Uninstall

Access computation, math, curated knowledge & real-time data through Wolfram|Alpha and Wolfram Language.



Shop

Uninstall

Search for millions of products from the world's greatest brands.



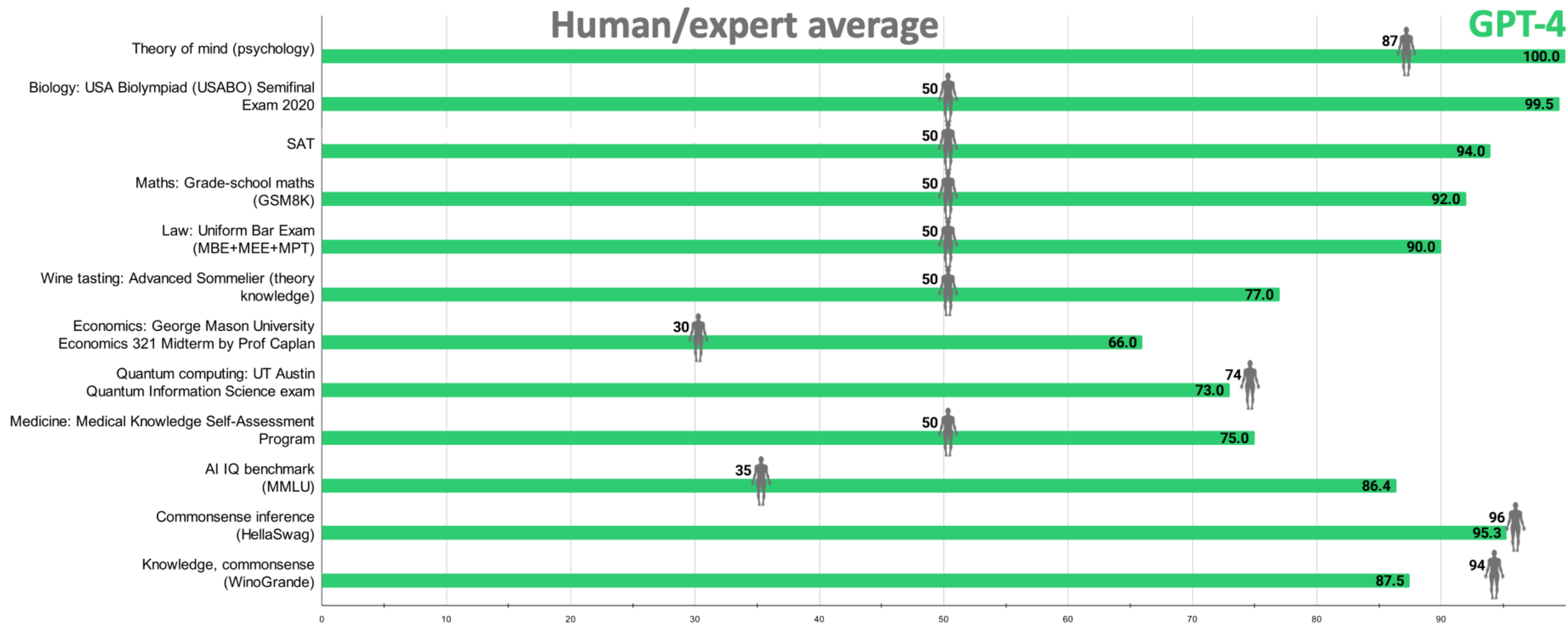
Zapier

Uninstall

Use Zapier to interact with over 5,000+ apps like Google Sheets, Trello, Gmail, HubSpot, Salesforce, and thousands...



# GPT-4 VS HUMAN TESTS (MAY/2023)



Selected highlights only. Percentiles; 50 refers to the 50<sup>th</sup> percentile as average, and may not be the testing average for some tests. Alan D. Thompson. April 2023. <https://lifearchitect.ai/iq-testing-ai/>





vorhersagen

identifizieren

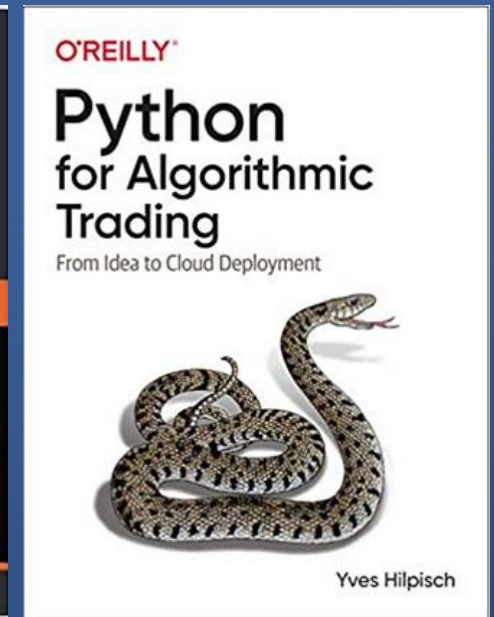
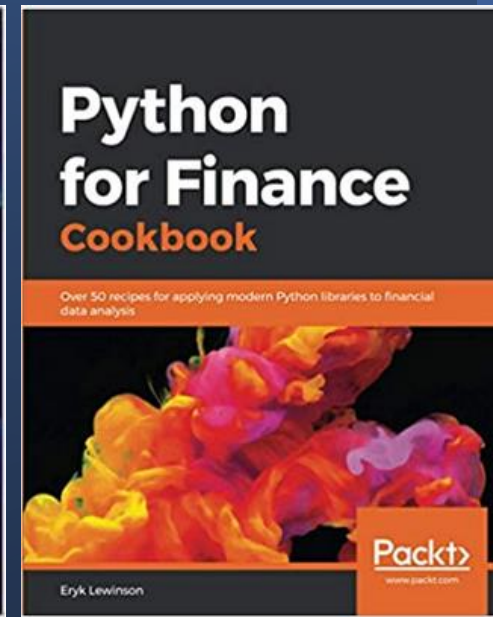
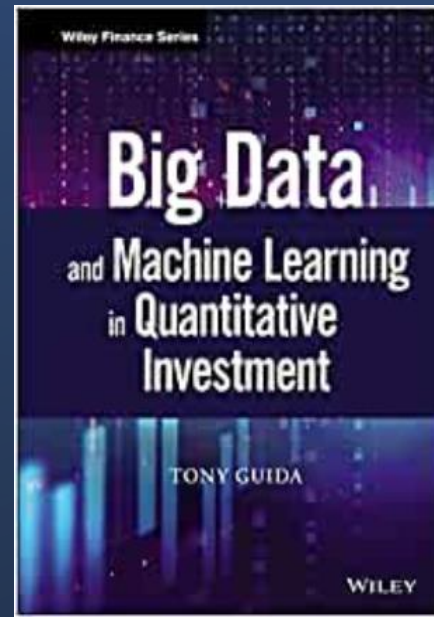
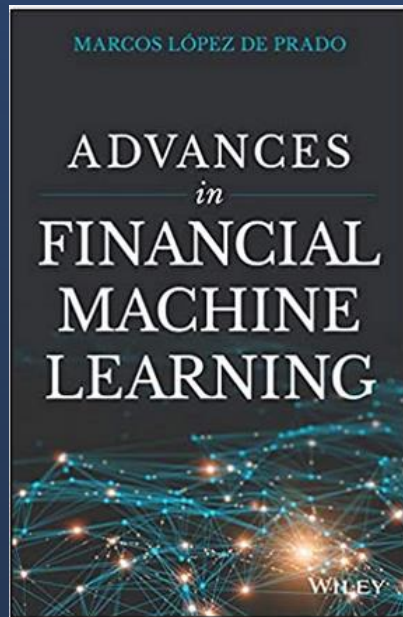
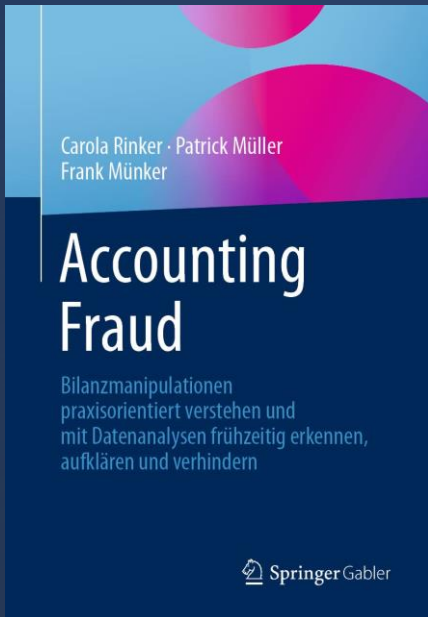
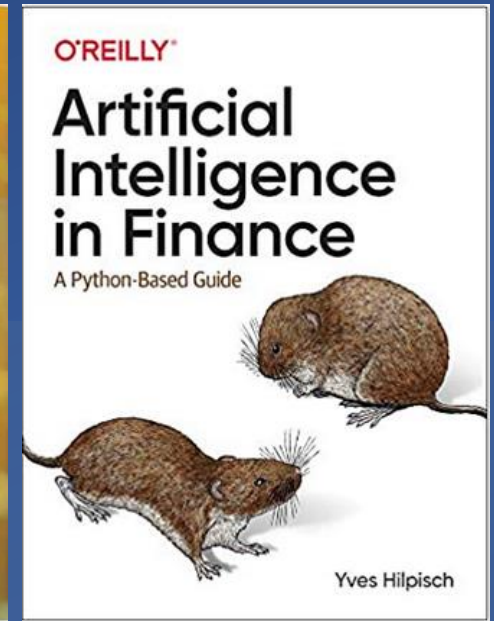
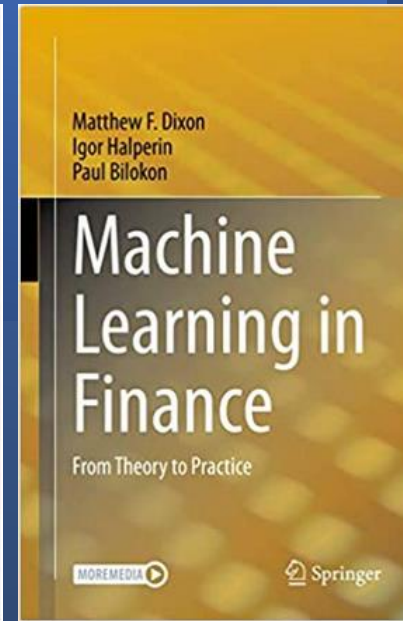
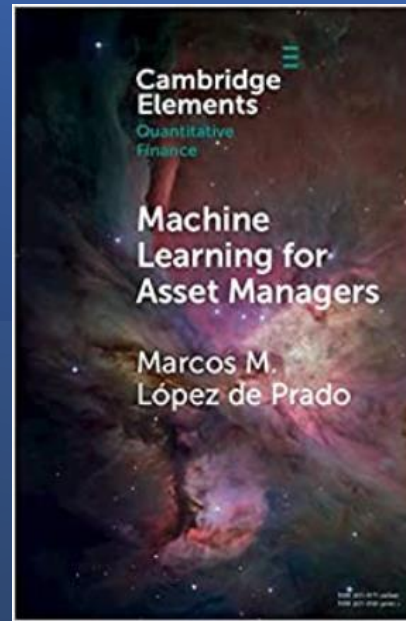
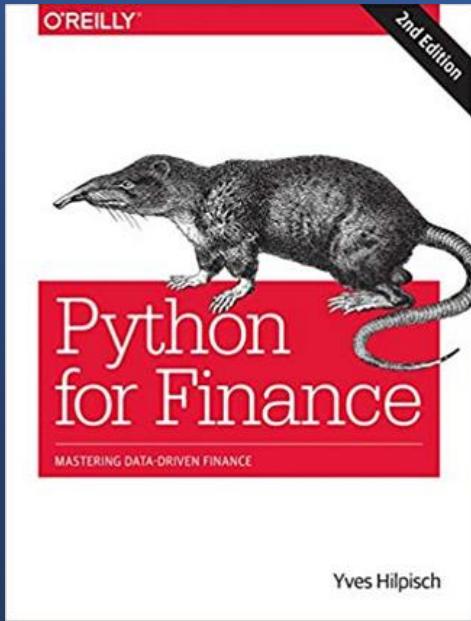
personalisieren

analysieren

steuern

automatisieren







CONCEPTS SHIMMER

SEEKING

DRIFT SCOUTY7

SARA 10

3:0

CONCEPTS & INSTANCES



DATA SOURCE

DATA FLOW

# Microsoft JARVIS



CREDIT SCORE 897

PROPERTY VALUE 1.2M





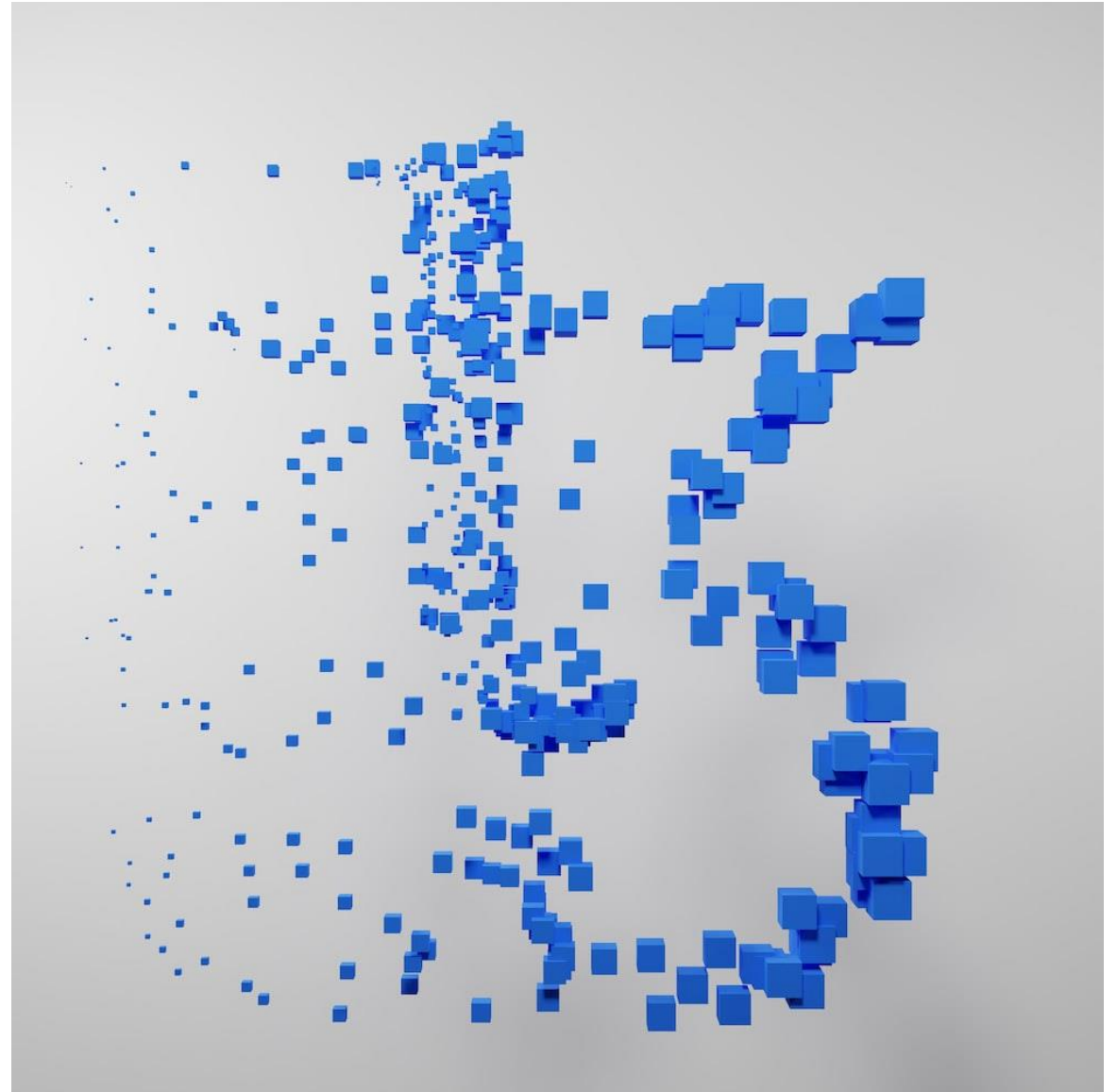


#Lernen mit (erweitertem)  
Kontext & „Gedächtnis“

#Dezentralisierung

#Spezialisierung

*#Assistenten vs. Agenten*





text2text

video2text

text2image

text2music

speech2text

text2speech

image2text

text2video

image2music

code2code

text2code

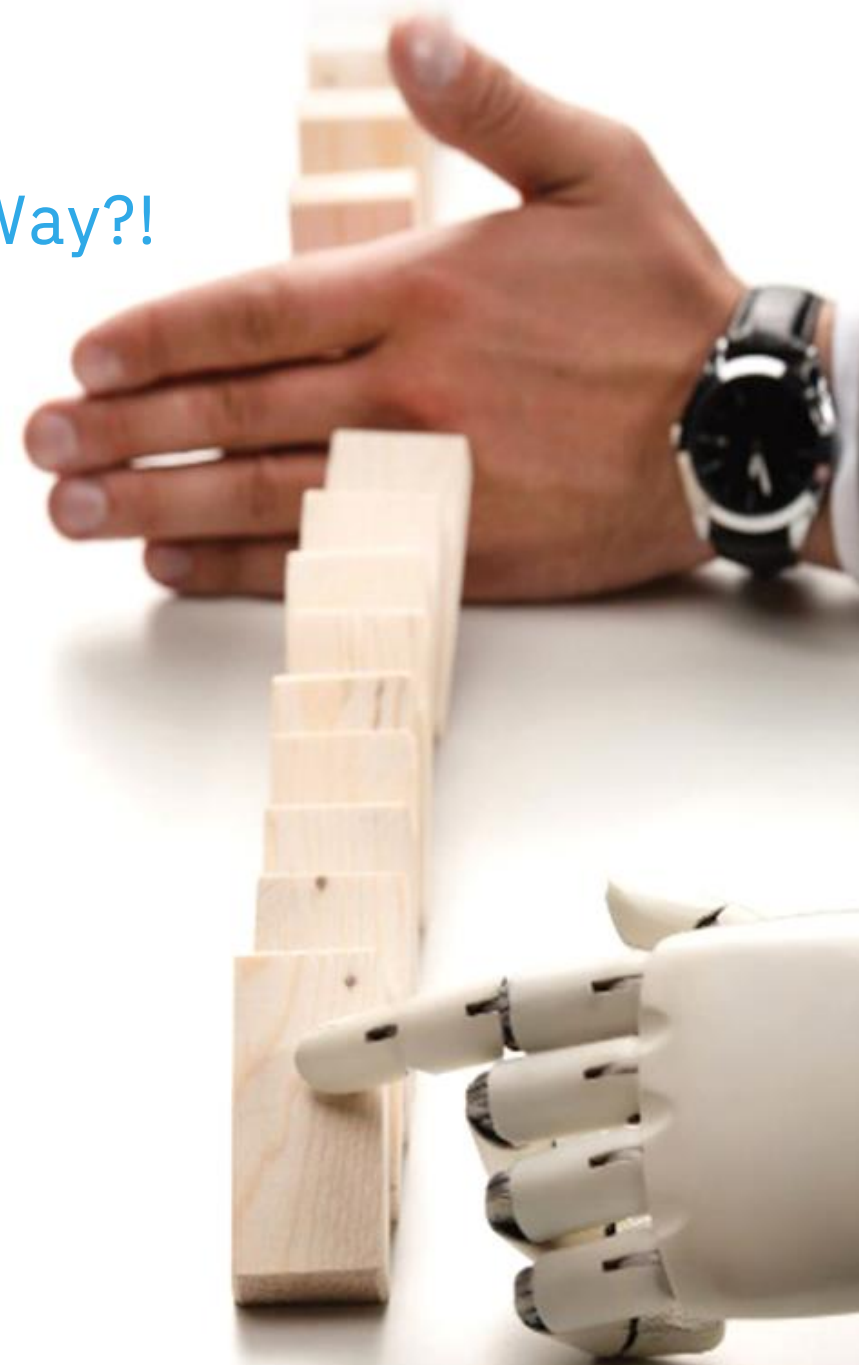
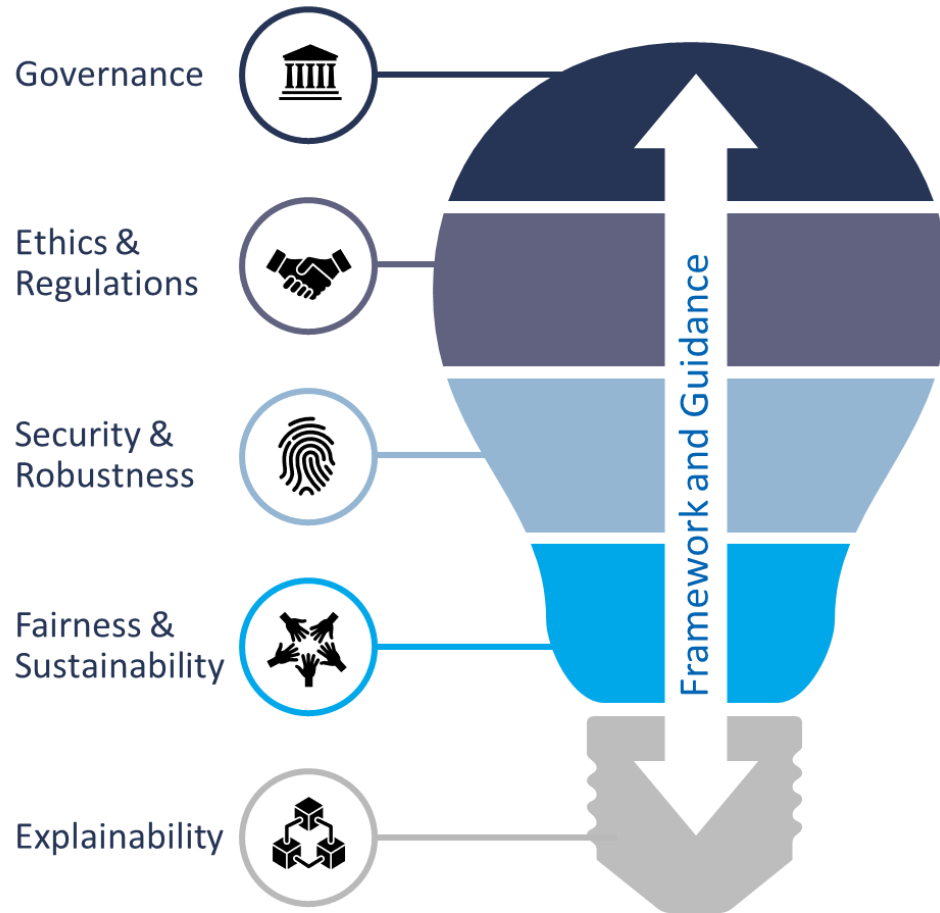


## DeepFakes, Cybercrime, Manipulation ...





# Responsible & Trustworthy AI – The European Way?!





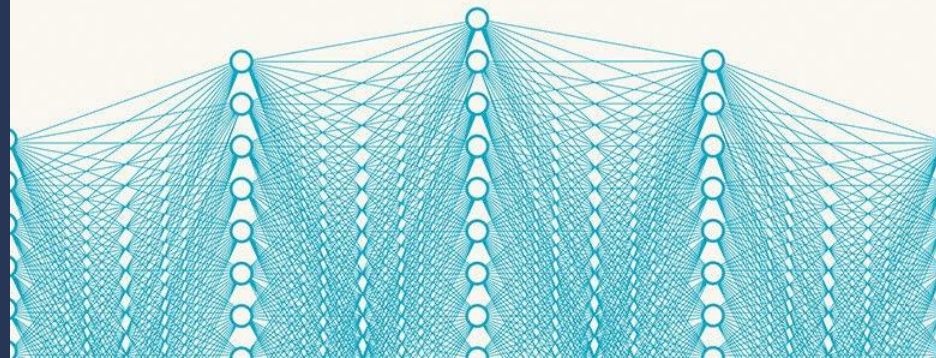


# THE ALIGNMENT PROBLEM

Machine Learning and Human Values

**BRIAN CHRISTIAN**

*Best-Selling Author, Algorithms to Live By*





# Thank You!

„it's impracticable to holt the exponential advancement of technology“ – Ben Goertzel