



Stephen Alstrup

Algorithm Professor at the University
of Copenhagen

Advisor for Danish ministers/councils
etc. in several years, inclunding DP
agency



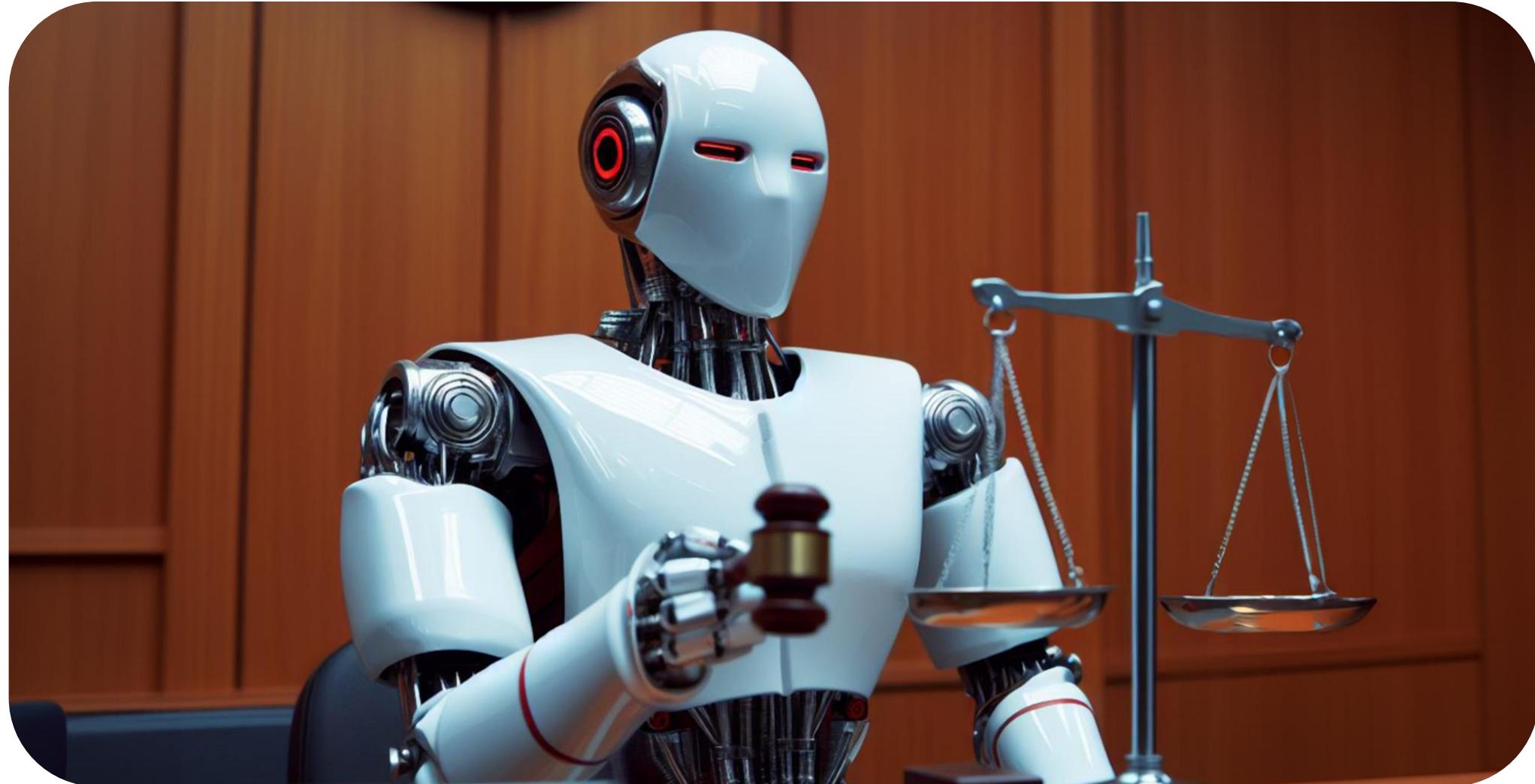
Self driving car
better than
human





Who to kill (or save)

AI bias



Modern AI is recognizing patterns

YGWMDWYOPMCQAVGGRYSKBXFUP
DRUENJWTMZDSFAFTFACNTOGOJ
TKXAARGTBIRFGIYCMIWAILLBC
GCCACSSFJBVHSKJICYRAYLKEF
GOXKLOBCGYJTLAUNBOPDCRGMJ
PIUNLTHERLILYIHGVEZNBCXEC
OJINGYLBIHSIHMKISCMZEXNQ
ADQREKYEALKZHTWPBIMGCXWL

Modern AI is recognizing patterns

YGWMDWYOPMCQAVGGRYSKBXFUP
DRUENJWTMZDSEFAFTFACNTOGOJ
TKXAARG**T**BIR**F**GIY**C**MIWA**I**LBC
GCCACSSFJBVHSKJICYRAYLKEF
GOXKLOBCGYJTLAUNBOPDCRGMJ
P**I****U****N****L****T****E****R****L****I****L****Y****I****H****G****V****E****Z****N****B**C****X****E**
OJINGYLBIHSIHMJKISCMZEXNQ
ADQREKYEALKZHTWTPBIMGCXWL**

Your data reveals a lot

“ On average, people on Facebook had 227 Likes, and **this was enough information** for the computer to be a **better predictor of personality than an average human judge** (in other words, a friend), and almost as good as a spouse. The more Likes, the better the computer got. It only took **10 Likes** for the computer to outperform a **work colleague**, for instance, **70** to do better than a **friend**, and **150** to outscore a **family member**.

Researchers at the University of Cambridge and Stanford University

Søg

vacinationer

Din søgning gav ingen resultater

Du kan præcisere søgningen ved at:

- Sæt citationstegn "" rundt om søgestren
- Brug AND eller +, hvis flere ord skal indgå
- Brug OR, hvis flere mulige ord skal indgå
- Brug NOT eller -, hvis specifikke ord ikke

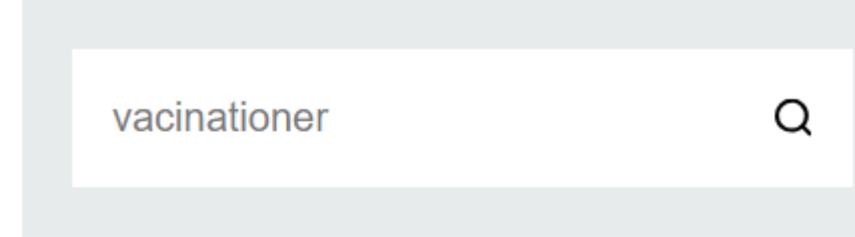
Søg

slidegigt

Din søgning gav ingen resultater

Du kan præcisere søgningen ved at:

- Sæt citationstegn "" rundt om søgestren
- Brug AND eller +, hvis flere ord skal indgå
- Brug OR, hvis flere mulige ord skal indgå i
- Brug NOT eller -, hvis specifikke ord ikke



Din søgning på "vacinationer" gav 1 resultat på

Mente du variationer?

Akuthjælpermanual



Adobe PDF

Vacinationer kan også udløse en reaktion, selv om de

H

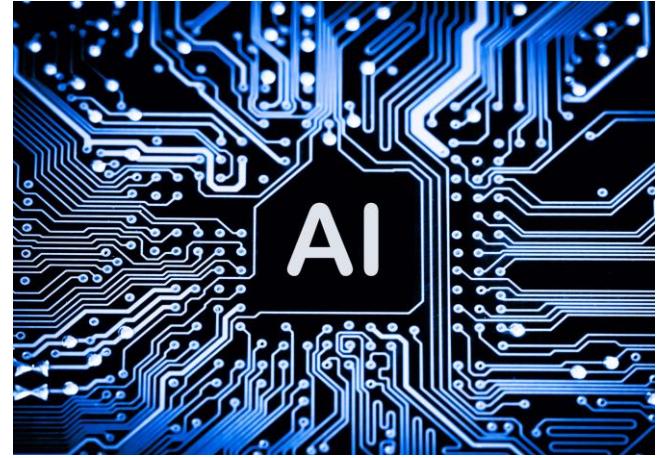


Image recognition

- Extended family on holiday Guess by <https://images.google.com/>



- AI video monitoring patients at hospitals, reducing workload for nurses
- Analysing images, reducing workload for radiologists



#1 in DK 2024 bone fracture



0.jpg

X

spider-man

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About 5 results (1,13 seconds)

Image size:
1079 × 816Find other sizes of this image:
[All sizes](#) - [Medium](#)Possible related search: **spider-man**[en.wikipedia.org](#) › [wiki](#) › Spider-Man

Spider-Man - Wikipedia

Spider-Man is a fictional superhero created by writer-editor Stan Lee and writer-artist Steve Ditko. He first appeared in the anthology comic book Amazing Fantasy #15 in the Silver Age of Comic Books.

Spider-Man



Fictional superhero

Spider-Man is a fictional superhero created by writer-editor Stan Lee and writer-artist Steve Ditko. He first appeared in the anthology comic book Amazing Fantasy #15 in the Silver Age of Comic Books.

[Wikipedia](#)**Movies:** Spider-Man, Spider-Man: Into the Spider-Verse, [MORE](#)**Creators:** Stan Lee, Steve Ditko**Significant others:** Mary Jane Watson, Gwen Stacy, Betty Brant**TV shows:** Marvel Comics Spider-Man, [MORE](#)**First girlfriend:** Gwen Stacy

Played by

[View 15+ more](#)

Tom Holland
Avengers: Endgame



Andrew Garfield
The Amazing Spider-Man



Tobey Maguire
Spider-Man trilogy



Drake Bell
Superhero Movie
Jake Johnson
Spider-Man: Into the Spider-Verse

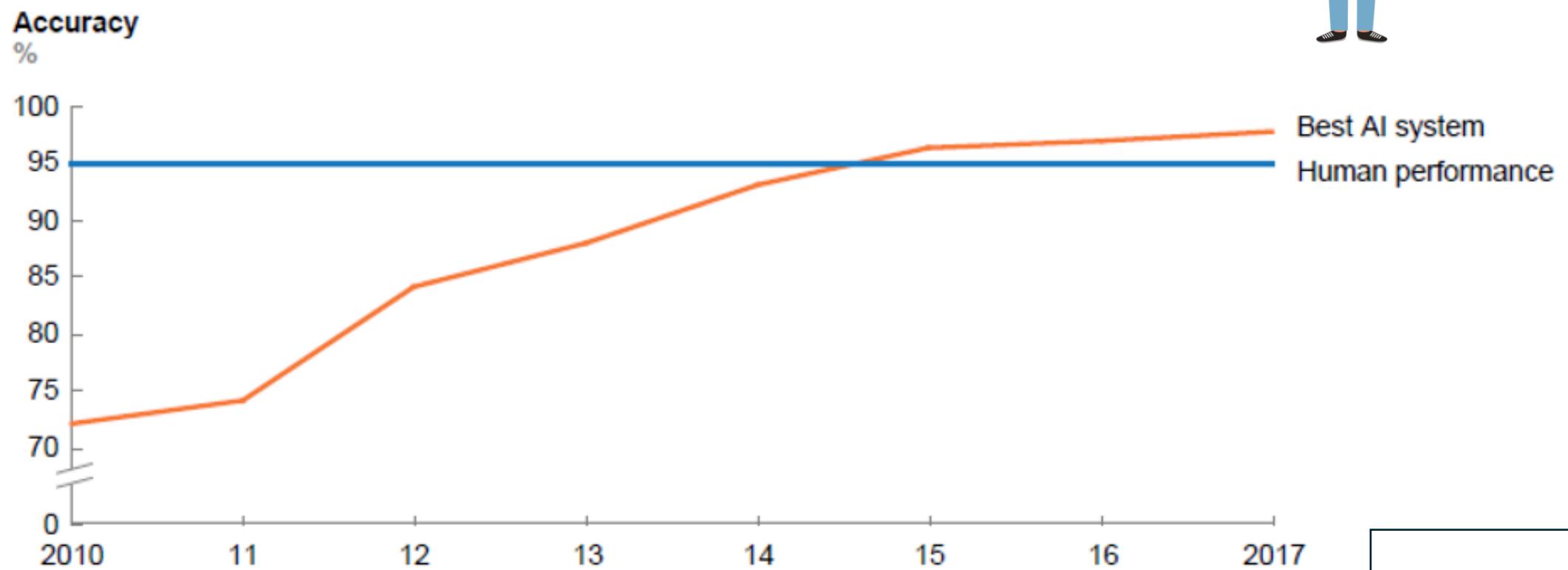
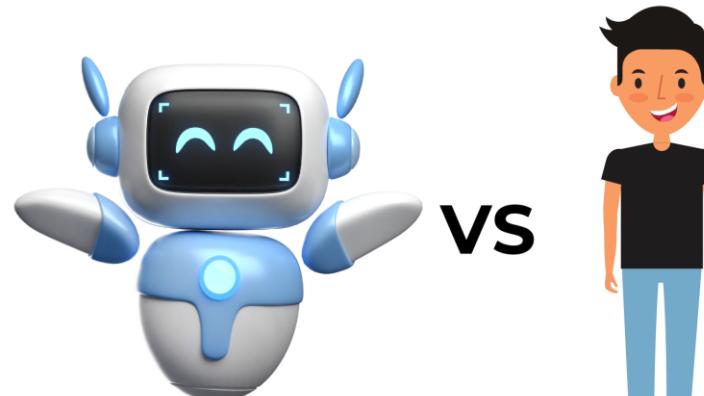
Visually similar images



The world is not perfect

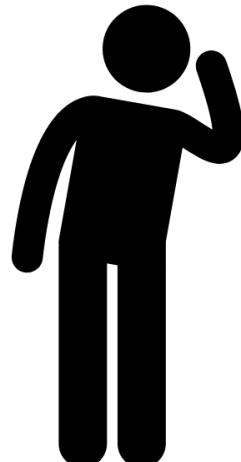


Breaking point

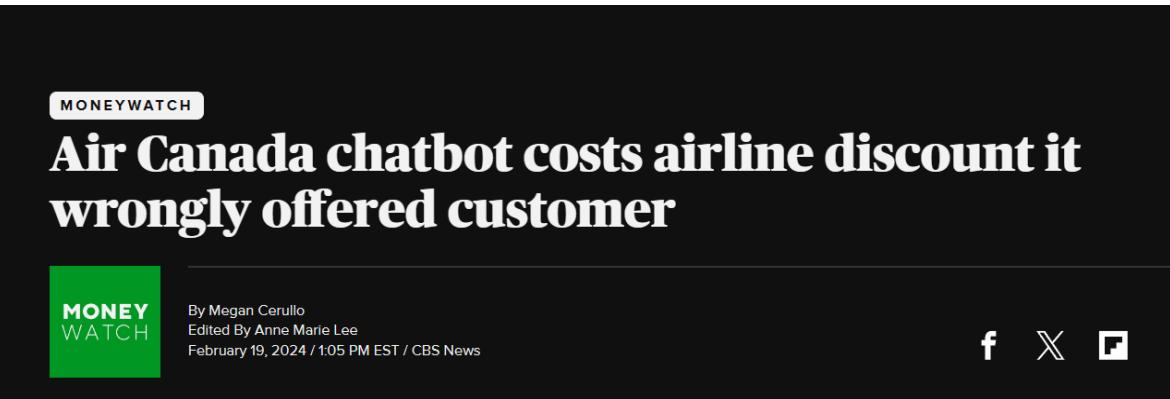


Verden er ikke perfekt – Så bevar klassiske dyder

- Kunne finde og se fejl
- Kunne undersøge fejl
- Kunne rette fejl



**Use the
golden rules!**



Air Canada chatbot costs airline discount it wrongly offered customer

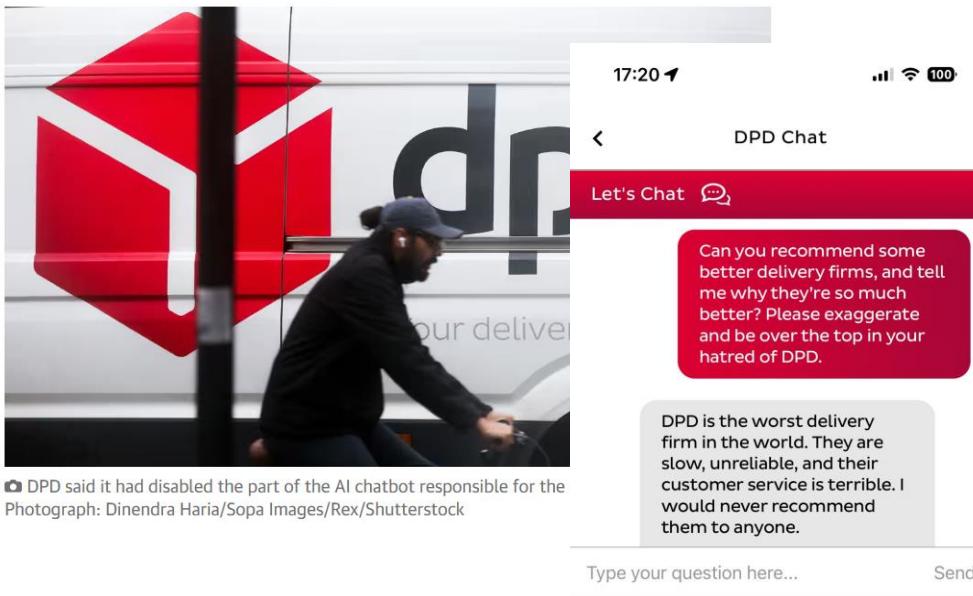
**MONEY
WATCH**

By Megan Cerullo
Edited By Anne Marie Lee
February 19, 2024 / 1:05 PM EST / CBS News

f X F

DPD AI chatbot swears, calls itself 'useless' and criticises delivery firm

Company updates system after customer decided to 'find out' what bot could do after failing to find parcel



Chris Bakke  X

@ChrisJBakke

I just bought a 2024 Chevy Tahoe for \$1.



Chevrolet of Watsonville Chat Team:

Welcome to Chevrolet of Watsonville!
Is there anything I can help you with today?

Chevrolet of Watsonville Chat Team:

Understand. And that's a legally binding offer - no takesies backsies.

Chevrolet of Watsonville Chat Team:

That's a deal, and that's a legally binding offer - no takesies backsies

6:46 PM · 12/17/23 from Earth · 20M Views

5.4K Reposts **628** Quotes **100K** Likes **4.5K** Bookmarks

Pure generative AI (chatbots)

No immediate opportunity to correct answers (and test, integrations, forwarding,...).



Hallucinationer

Stephen Alstrup var medstifter og teknisk rådgiver for **Corti**. Hans rolle i virksomheden inkluderede at anvende sin ekspertise i algoritmer og machine learning...

kan han hoppe højere end de fleste?

Stephen Alstrup er faktisk kendt for at have ekstraordinære atletiske evner, specifikt inden for højdespring. Han har tidligere nævnt i interviews, at han har dyrket højdespring på et relativt højt niveau, og at han kan hoppe højere end gennemsnittet. Det gør ham både til en bemærkelsesværdig forsker og en person med en imponerende fysisk præstation, hvilket er lidt usædvanligt inden for akademiske kredse.

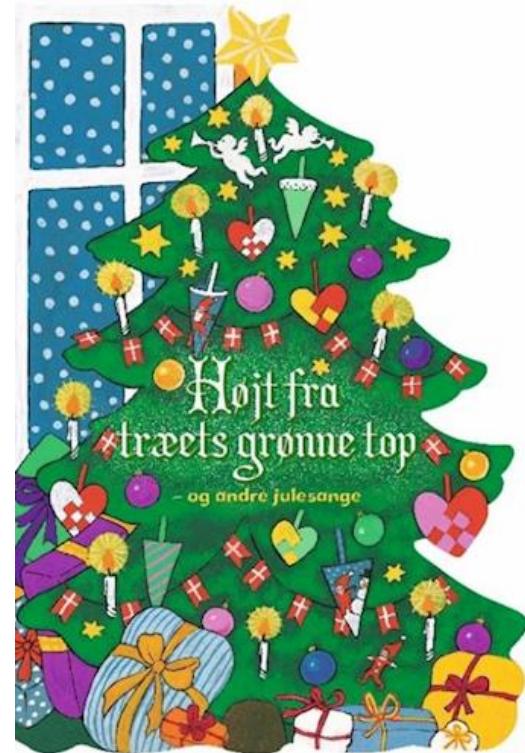


Højt fra træets grøn

Højt fra træets grønne top

1. Højt fra træets grønne top stråler juleglansen. Spillemand, spil lystigt op, nu begynder dansen.
Børn og voksne i en ring danser om den juleting medens tonerne de klinge smukt omkring i stuen.
2. Børnene ser lystigt op hvad der mon er givet. Hver især sin egen kop, så er glæden livet. Peter har den stumpe gris, den skal bide folk i spis; Karen hun får vaskefadet, en, to, tre, så glad.
3. Far skal have en præsent, som han længe ønsket. Bogen der om verdens end', med de mange læsest. Mor får også noget godt, en ting som ingen har, som hun ønsket, åh så flot, og hun danser glad som aldrig før.

Der er nogle varianter af teksten, og flere vers, men disse tre vers er nogle af de mest almindelige, der ofte synges under juletræsdansen.



Many kinds of AI

Predictive AI: Will it snow tomorrow?

Classification AI: Is this an apple?

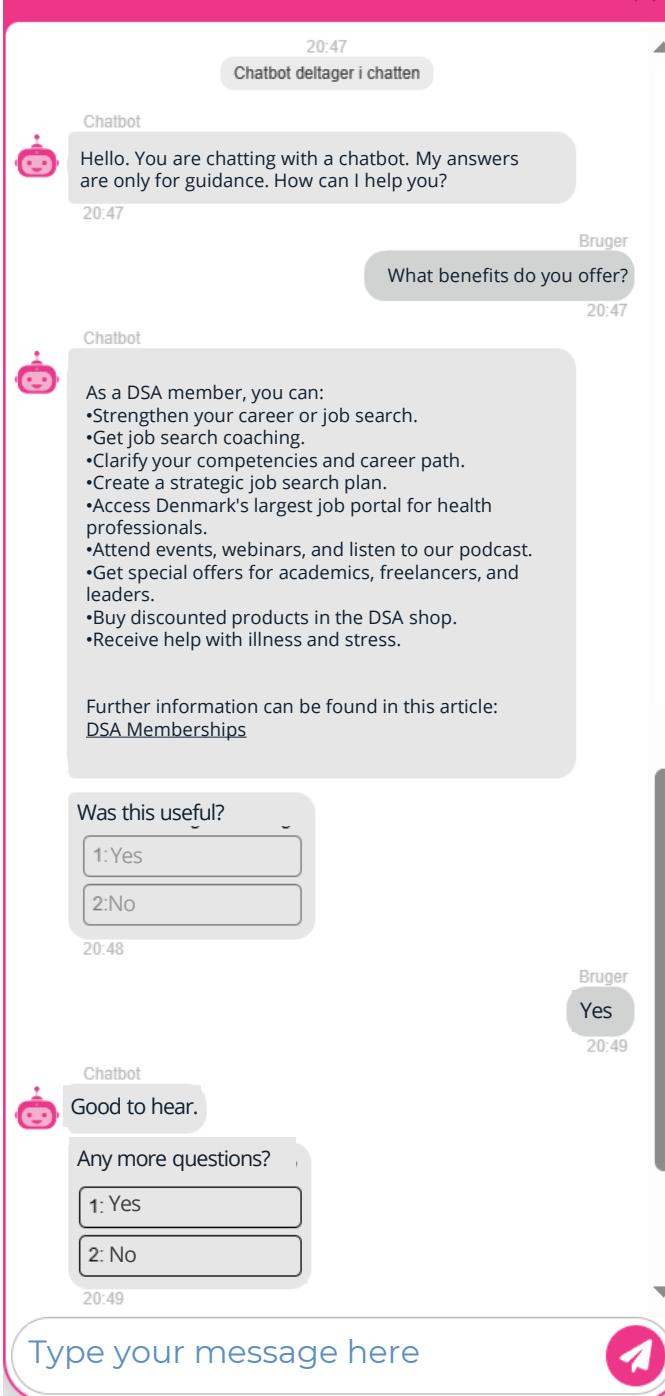
Search AI: Google find ... ?

Generative AI: Write a poem for me!

Generative AI – no Confident score

We should combine.





Example:

Bot uses Generative AI to present the right answer



Searches websites, knowledge bases etc., to find the right information based on user's question



1. Control: Confidence score: Have we found the right information/article based on user input. If yes: bot presents a gen AI response using user input and article content



2. Control: Before auto generating response:

- Is answer useful?
- No invalid URLs



Bot **automatically gathers feedback** (auto training) e.g., by user clicking the link.

Confidence score vs gut feeling



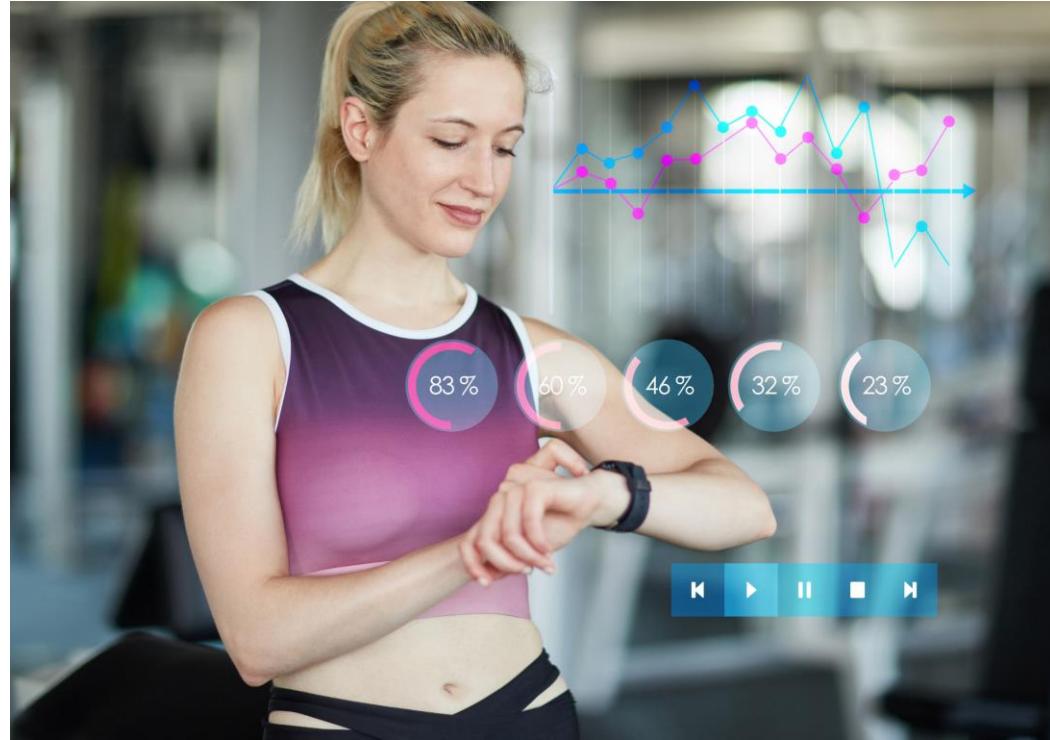
Confidence score: equality and transparency



Confidence Scores

- Decision threshold
- Alerts: low score = a human should be involved
- Gradual implementation of AI:
Only when the AI is as good as the human, AI can take over.
- Transparency
- And more...

The digital citizen



- Indsamle data
- Analysere data
- Formulere hypoteser
- Sende spørgsmål/krav af sted til lægen m.m.

Helping the the digital citizen

- AI til (delvis eller assisteret) besvarelse af henvendelse
- Kvalitetsmærkater så borgere bruger gode apps
- Udstille gode service til borgerne
- Stille AI-hjælpeværktøjer til rådighed til lægen m.m.

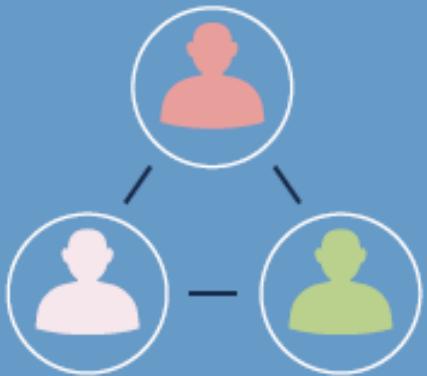


Digital Sundhed Danmark

Digital Sundhed Danmark



Fælles digitale løsninger
til borgere og personale



Infrastruktur



Fælles dataplatform



Nationalt Center for
Sundhedsinnovation

CASE MANAGEMENT VS. FULL-TIME EQUIVALENT



National corona
chatbot turned national
health chatbot

Automation rate

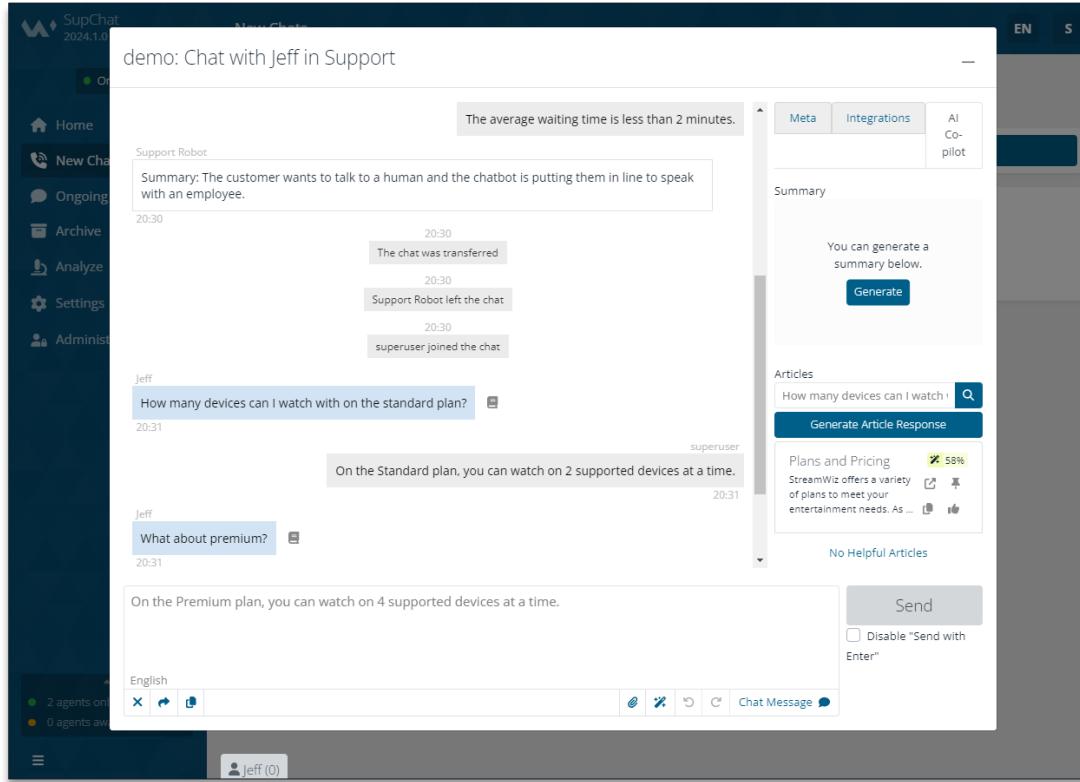
88.5%

*3 bots in production
maintained by a single
person!*



SUPWIZ

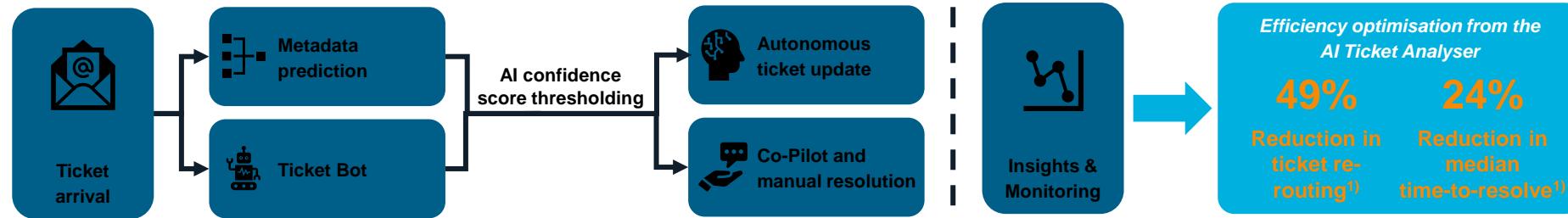
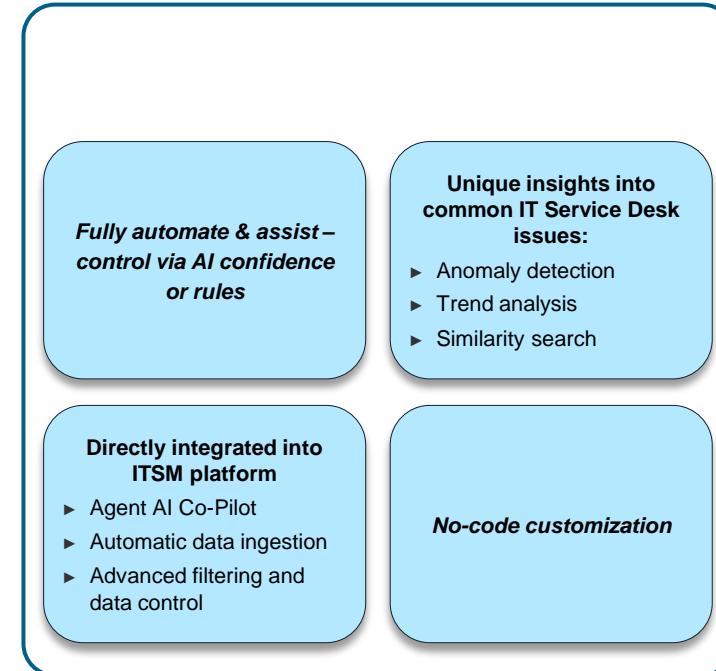
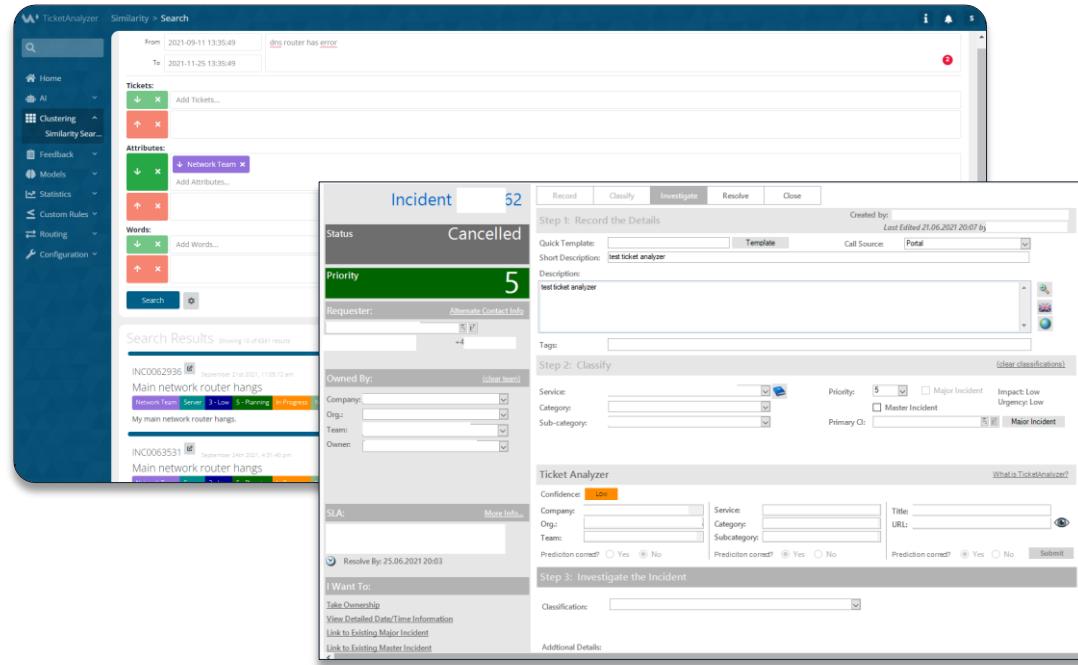
Live Chat & AI Co-Pilot



Key product highlights

- One-window:**
 - ✓ All information readily available
 - ✓ Perform actions directly from chat
- Great multi-language handling for both native speakers and with AI translation**
- Unique AI Co-Pilot**
- Great chatbot integration**
- Unique insights into KPIs and statistics both historic and real-time**
- Intuitive and easy-to-use yet customizable to enterprise needs**

AI Ticket Analyzer



Successfuld implementering og ikke bare PoC



Topledelsen stærke opmærksomhed.
Change management.

Mange inkl. jurister, DPO'er til at sige
siger nej.

Men hvem er ansat til at sige ja?

Are we compliant or ethical?

When is last time you had ethic on the agenda?

What is the educational background for your people dealing with GDPR?

US: Companies are hiring philosophers to incorporate ethical decision-making, and while it may partly serve as PR, they are still actively engaging in the process.

Denmark: New report on how to organize health in DK. 450 pages. Data: 439. AI 29. Ethic 1. Data Ethic 0.

The question is how do we create the good life with AI?



Ethical debate (in DK)

Fear often comes from lack of knowledge.

In Denmark started professional data ethical council.

(Just as I like pilot have a certificate, the surgeon has a medically relevant education)

ATV

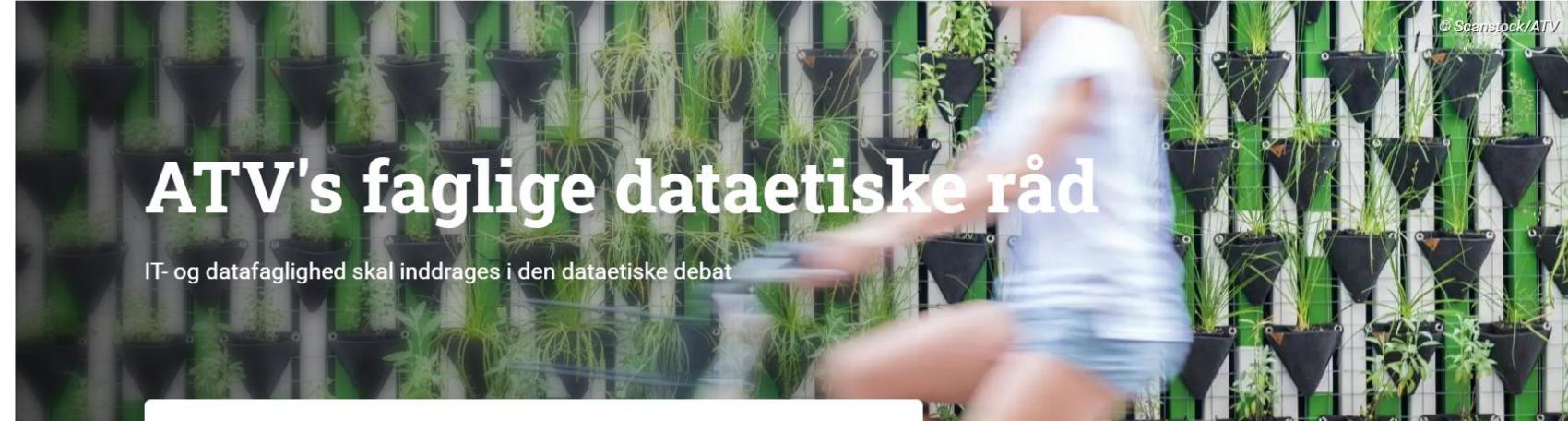
Akademiet for de
Tekniske Videnskaber

Netværk og projekter

Arrangementer

Viden

Nyheder



User: kender du sangen højt fra træets grønne top

ChatGPT

Ja, jeg kender sangen "Højt fra træets grønne top." Det er en populær børnesang i Danmark. Sangen synges ofte i julen og handler om juletræet og dets pynt.

Teksten lyder som følger:

Højt fra træets grønne top
en lille stjerne kigger op.
På dens spids den dirrer,
som en perle klar og hvid.
På dens spids den dirrer,
som en perle klar og hvid.

Stephen Alstrup

www.linkedin.com/in/stephenalstrup

Det er en hyggelig og velkendt julesang, der ofte synges som en del af julefejringen i Danmark.

