



# ChatGPT, etik & undervisning

chatGPT Taskforce møde 21 Juni 2023  
Kort gennemgang til taskforce gruppen  
af præsentationen til studievejlederne

## Hovedpunkter i præsentationen til studievejlederne i Maj, 2023.

I dag:

Meget hurtig gennemgang af 1 -3.

Lidt mere om 4.

I alt ca. 25 min.

Dialog, sig til hvis noget er "out of scope".

### 1. AI i medierne.

AI er pludselig alle vegne. Nogle journalister har en noget "sensations præget" tilgang. Og indkaldte "AI eksperter" er ikke nødvendigvis eksperter. Men alle vil gerne i fjernsynet.

Forsøg på humoristisk tilgang med DALL-E billeder.

2. Zombie AI - De ting vi alle kan blive enige om at vi ikke vil have. Og som det er vigtigt at alle siger fra overfor.

3. Den danske undervisnings tradition - Gode ting vi ikke ønsker at smide overbord.

4. ChatGPT & Undervisning. Øget produktivitet i rutine opgaver, hjælp til at ræsonere, cooperative learning og sammenfatning/læring, differentieret undervisning.

Studievejledernes  
netværksmøde.  
sila@eaaa.dk  
Sila. 23 Maj 2023.



# Ai & ChatGPT

Netværksmøde for studievejledere fra erhvervakademierne.

23 Maj 2023.

Simon Laub, [sila@eaaa.dk](mailto:sila@eaaa.dk)

In Denmark:

☰ 🔍 **BØRSEN** ⌚ SENESTE NYT KURSER

AI

## Tidligere IBM-direktør advarer mod at blive for afhængig af AI: Vigtigt med en exitstrategi, hvis priserne stiger

Pas på AI ikke ender som russisk gas.

<https://borsen.dk/nyheder/ai/kun-ved-at-tage-ai-i-brug-kan-vi-laere-at-tojle-den>

☰ 🔍 **BØRSEN** ⌚ SENESTE NYT KURSER

AI

## Nul europæiske selskaber i AI-førerfeltet: “Det giver to udfordringer”

15 Maj 2023.

<https://borsen.dk/nyheder/ai/opraab-pas-paa-at-ai-ikke-ender-som-russisk-gas>

13 Maj 2023.

Jan Damsgaard, professor, Institut for Digitalisering, CBS, og medlem, ATV's Digitale Vismandsråd

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AI

## Debat | Professor: Jeg kan ikke advare stærkt nok mod at tøve med AI – Danmark skal i gang

AI & Chatbots.

Is there room for  
"Presence", "Curiosity", "Courage",  
"Resilience", "Ethics" & "Personal leadership"  
in the new world of ChatBots & AI?

VIDEO  
**THE FUTURE IS NOW**

Studievejledernes  
netværksmøde.  
sila@eaaa.dk  
Sila. 23 Maj 2023.


## AI & Chatbots.

- Where are we now? The story so far, according to Dall.E, Bing.



Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL·E | PREVIEW



a sad teacher in a classroom with college students working on their laptops

Bing Image Creator | 1024 x 1024 jpg | Oprettet nu

Del Gem Download Feedback

Oprettet med AI

Image created with Microsoft Bing. DALL·E. Sila. 14 Maj 2023.

## AI & Chatbots.

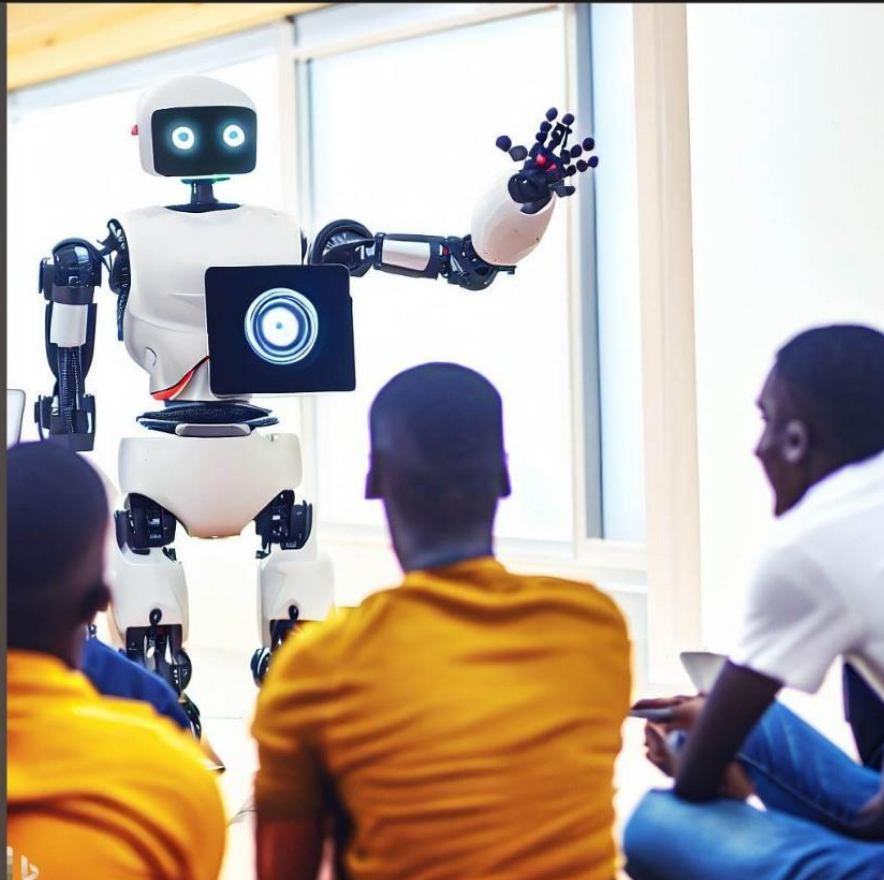
- Where are we now? The story so far, according to Dall.E, Bing.



Microsoft Bing

Billedopretter  
leveret af DALL·E

PREVIEW



picture of a friendly robot telling a story to students

Bing Image Creator | 1024 × 1024 jpg | Opretet nu

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Towards the future. Problems and no clear path forward...? Information overload 2023...

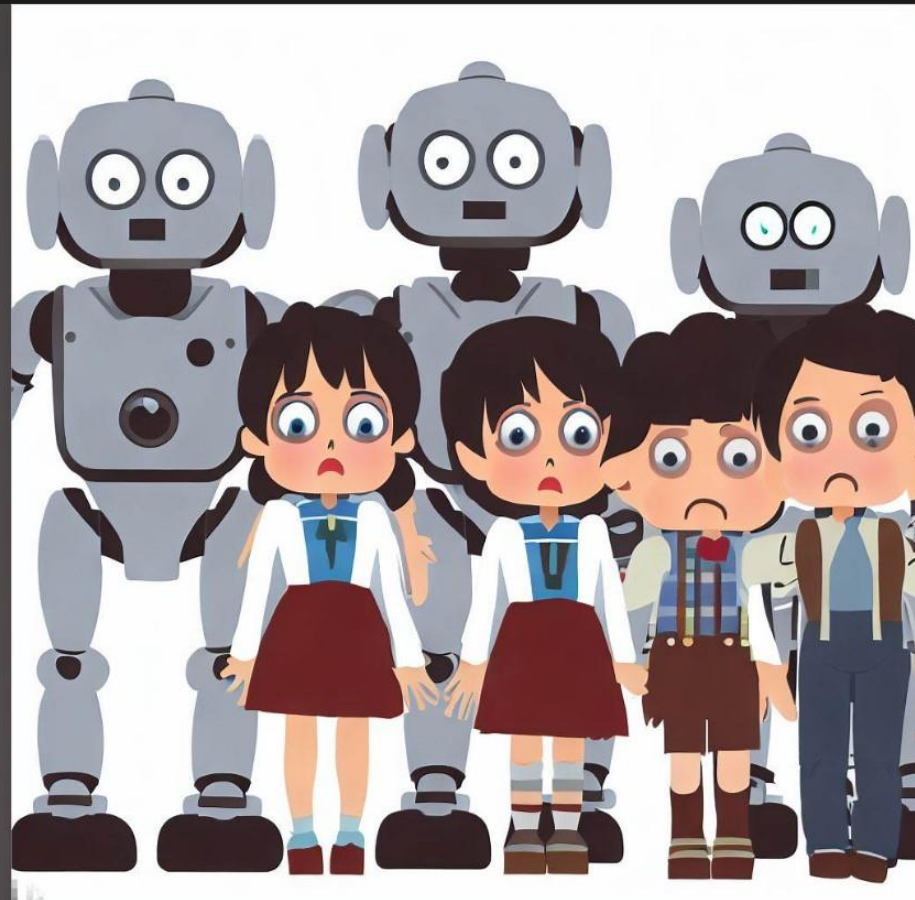
Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

## AI & Chatbots.

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Microsoft Bing | Billedopretter leveret af DALL-E | PREVIEW



robots and students looking scared

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Towards the future. Problems and no clear path forward...? Information overload 2023...

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Microsoft Bing **Billedopretter** leveret af DALL·E PREVIEW

happy chinese and american people winning the ai race, with chinese and american flag easily visible in background as well as robots, make the people look more realistic, make the people more smiling and make the chine flag bigger

Bing Image Creator | 1024 x 1024 jpg | Oprettet nu

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Towards the future. Problems and no clear path forward...? Information overload 2023...

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Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL·E | PREVIEW



us military looking scary with ai robots, add american flags to the picture

Bing Image Creator | 1024 x 1024 jpg | Oprettet nu

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Oprettet med AI

The image shows a screenshot of a Microsoft Bing search result for an AI-generated image. At the top, it says "Microsoft Bing" and "Billedopretter leveret af DALL·E" with a "PREVIEW" button. The main image is a soldier robot in military gear, holding a rifle, standing in front of a large American flag. The robot has glowing red eyes. To the right of the image, there is a search query: "us military looking scary with ai robots, add american flags to the picture". Below the query, it says "Bing Image Creator | 1024 x 1024 jpg | Oprettet nu". There are buttons for "Del", "Gem", "Download", and "Feedback". At the bottom, it says "Oprettet med AI".

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

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- Where are we now? The story so far, according to Dall.E, Bing.



Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL·E | PREVIEW

people looking sad with surveillance cameras in background as well as chinese flags

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Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL-E | PREVIEW

create a dystopian picture of sad people with Eu flags in the background as well as surveillance cameras

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Oprettet med AI

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

## AI & Chatbots.

- Where are we now? The story so far, according to Dall.E, Bing.



Microsoft Bing **Billedopretter** leveret af DALL·E PREVIEW



**sad students in a dystopian future with surveillance cameras and a danish flag**

Bing Image Creator | 1024 × 1024 jpg | Oprettet nu



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## AI & Chatbots.

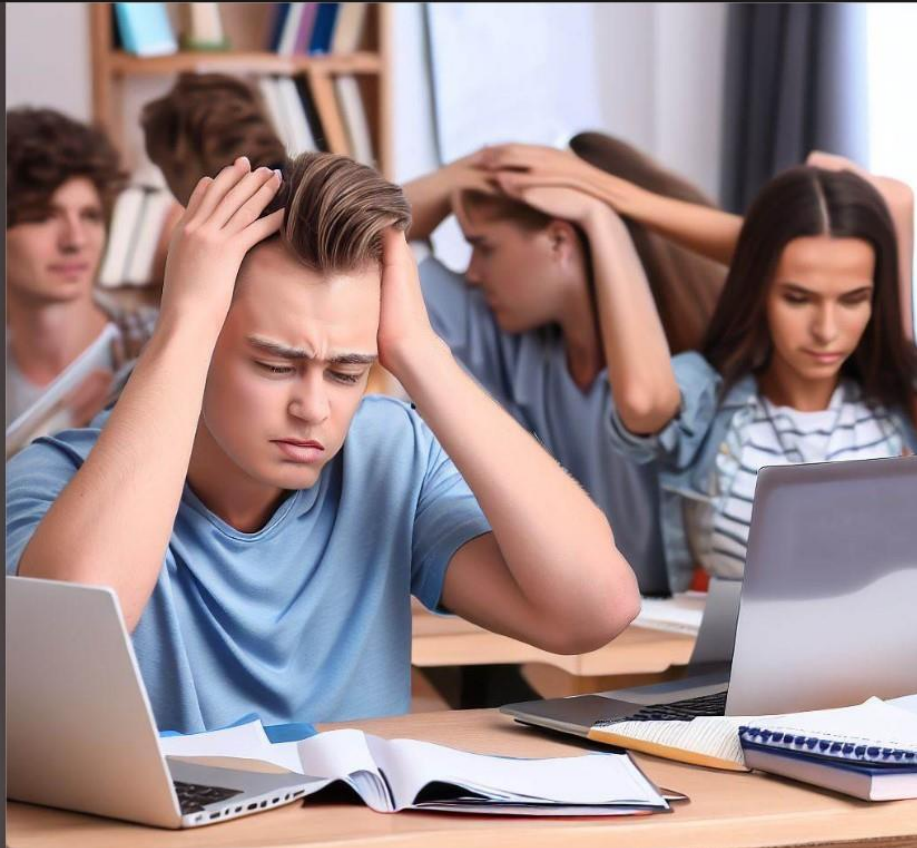
- Where are we now? The story so far, according to Dall.E, Bing.



Microsoft Bing

Billedopretter  
leveret af DALL-E

PREVIEW



**students being very frustrated and tired in front of their laptops with more students**

Bing Image Creator | 1024 x 1024.jpg | Oprettet nu



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Towards the future. Problems and no clear path forward...? Information overload 2023...

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

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Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL·E | PREVIEW

very tired and scared students working on their laptops in a dystopian futuristic setting with robots in the background

Bing Image Creator | 1024 x 1024.jpg | Oprettet nu

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Oprettet med AI

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

chatGPT search: Ban presence, curiosity, ethics, resilience and personal leadership in classroom and replace with TikTok teachers.

create a dystopian classroom where Presence, curiosity, courage, ethics, resilience and personal leadership are all banned and replaced with TIKTok teacher

Here is a possible dystopian classroom scenario:

The bell rings and the students shuffle into their seats. They wear identical uniforms and masks that cover their faces. They do not talk to each other or look around. They stare at the large screen in front of the room, where a TIKTok teacher appears.

“Good morning, class. Today we will learn about the benefits of conformity and obedience. Please repeat after me: I am grateful for the system that provides me with everything I need. I do not question the system or its rules. I do not express any emotions or opinions that are not approved by the system. I do not have any hobbies or interests that are not related to the system. I do not have any friends or family that are not loyal to the system.”

The students repeat the words in a monotone voice, without any sign of presence, curiosity, courage, ethics, resilience or personal leadership. They do not think for themselves or challenge anything they hear. They only follow the instructions of the TIKTok teacher, who rewards them with likes and comments for their compliance.

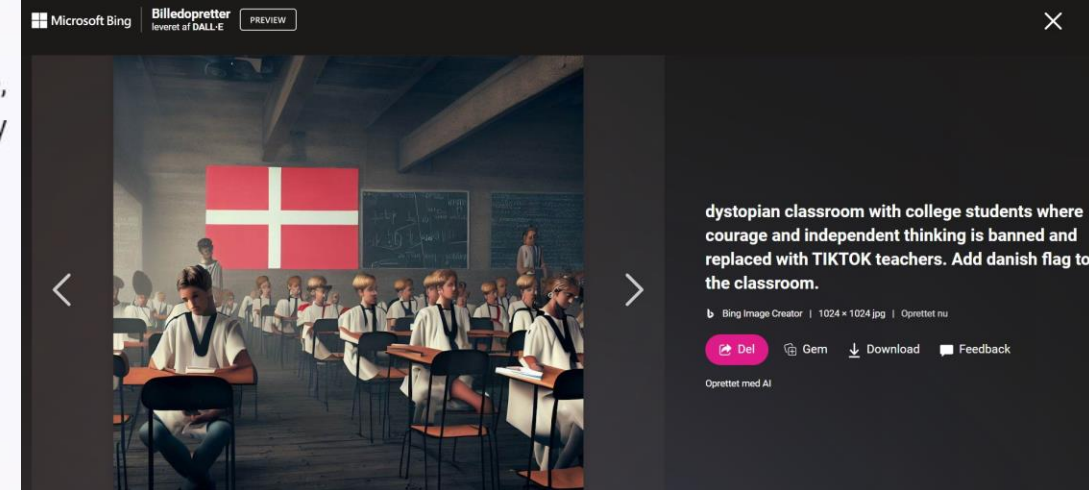
The TIKTok teacher continues to show them videos of celebrities and influencers who endorse the system and its products. The students are told to mimic their gestures and phrases, and to buy their merchandise. The TIKTok teacher also shows them videos of dissidents and rebels who oppose the system and its values. The students are told to boo and mock them, and to report any signs of resistance they see.

The TIKTok teacher tells them that this is the only way to be happy and successful in life. The students believe it and do not dare to imagine anything else. They spend their days watching and repeating what they see on the screen, without any creativity or originality. They are content with their dull and meaningless existence, unaware of the possibilities they have lost.



Image created with Microsoft Bing.  
DALL.E.  
Sila. 14 Maj 2023.

Towards the future. Problems and no clear path forward...? Information overload 2023...





# AI in the media.

The train to the future leaves, and Danish students are left behind, looking sad.

AI & Chatbots. Problems, and how they go away. A fairy tale.  
- Where are we now? The story so far, according to Dall.E, Bing.

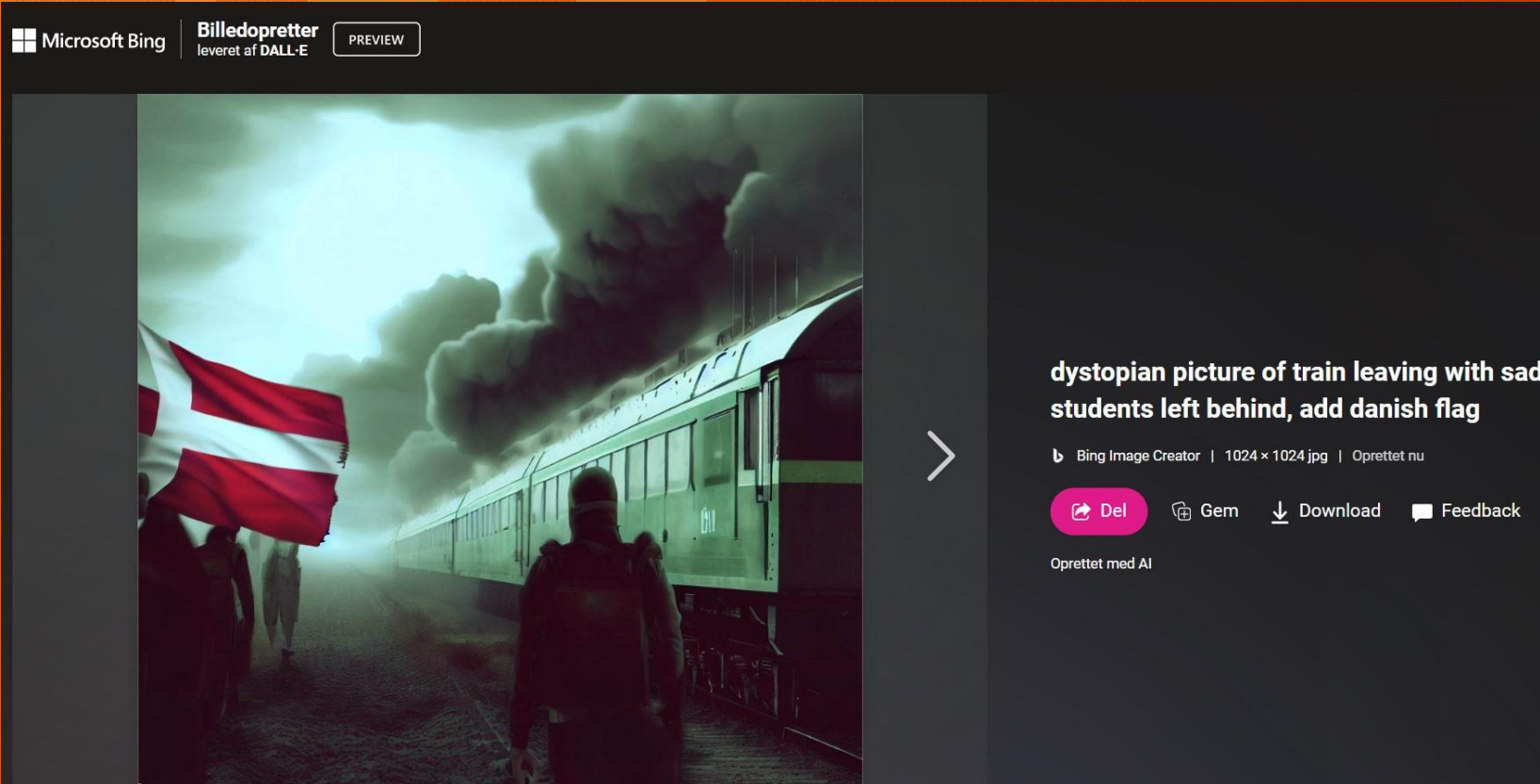
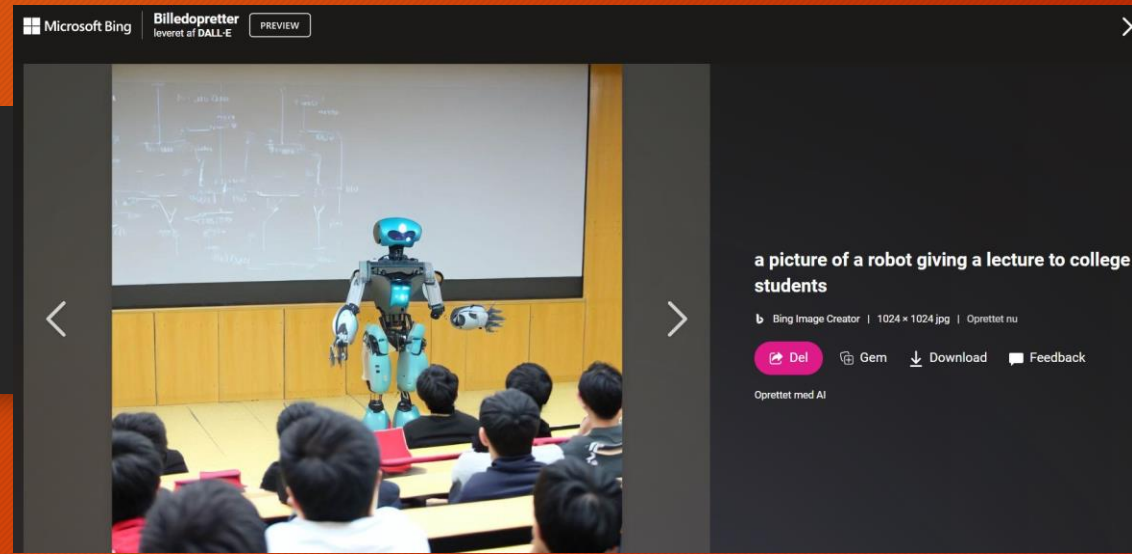


Image created with Microsoft Bing.  
DALL.E.  
Sila. 14 Maj 2023.



Towards the future.  
Problems and no clear path forward...?  
Information overload 2023...

# AI in the media.

But: Despite having no plan for the future, and taking no action, everything ends really well in Denmark? Really?

AI & Chatbots.  
- Where are we now? The story so far, according to Dall.E, Bing.



Microsoft Bing

Billedopretter  
leveret af DALL·E

PREVIEW



**smiling students working on their laptops while a robot looks on**

Bing Image Creator | 1024 × 1024 jpg | Oprettet nu



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Feedback

Oprettet med AI

Towards the future. Problems and no clear path forward...? Information overload 2023...

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

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Towards the future. Problems and no clear path forward...? Information overload 2023...

Microsoft Bing | Billedopretter leveret af DALL-E | PREVIEW

smiling students working on their laptops while a teacher looks on

Bing Image Creator | 1024 x 1024 jpg | Oprettet nu

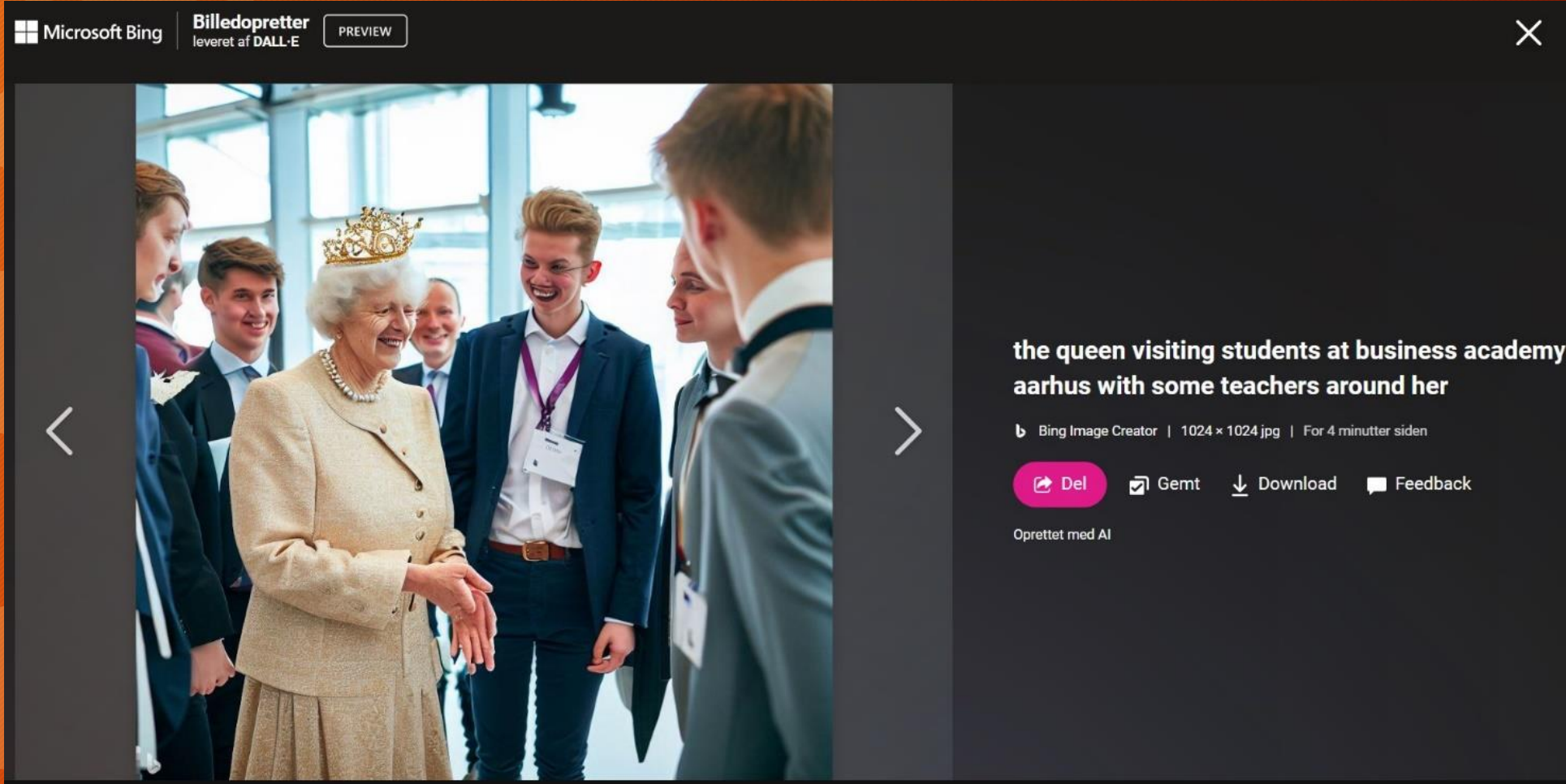
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Oprettet med AI

Image created with Microsoft Bing. DALL.E. Sila. 14 Maj 2023.

The queen visits Business Academy Aarhus and gives everyone medals for the good job everyone has been doing. Really?

AI & Chatbots.  
- Where are we now? The story so far, according to Dall.E, Bing.



Towards the future. Problems and no clear path forward...? Information overload 2023...

Image created with Microsoft Bing. Dall.E. Sila. 14 Maj 2023.

# Reality 2023....

# Mange gode AI usecases? But education?

Classification problems.

Ex 2. Healthcare.

Diseases identification and diagnosis.

Diseases prediction.

Medical imaging.

AI/ML can be really helpful.

Which is why we are talking about AI/ML...



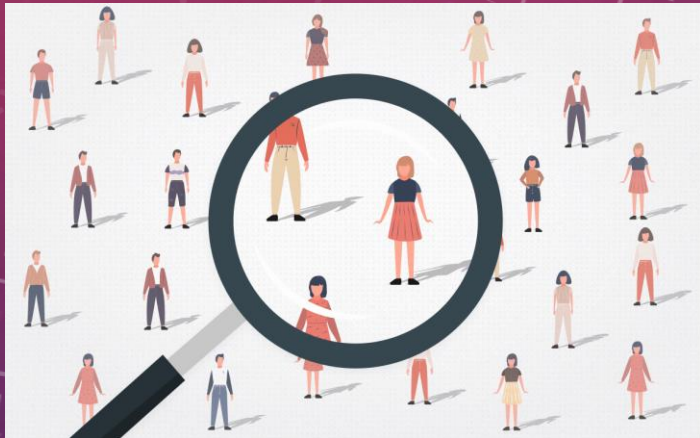
ML/AI assistance.

# Some very real problems...

ML/AI assistance.

## Classification problems.

Ex 3. Prison sentences ?



Bias.  
AI is sending people to  
prison and getting it wrong.



<https://www.technologyreview.com/2019/01/21/137783/algorithms-criminal-justice-ai/>

# Zombie AI

The philosopher Shannon Vallor, University of Edinburgh, argues that there are many garbage/zombie systems out there.

That they keep coming, and that we should all work together to push them back:

Problematic systems:

- Social ethical implications not carefully considered.
- Bias in training data not considered.
- The AI doesn't respect privacy.  
(And gains access to things like sexual orientation, emotional status, intentions, personality traits).
- The method the AI is using is based on un-scientific/doubtful methods.



# Zombie AI

The philosopher Shannon Vallor, University of Edinburgh, argues that there are many garbage/zombie systems out there.

That they keep coming, and that we should all work together to push them back - i.e. unproven/pseudoscience “Facial features doesn't give human character”.



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[Published: 02 March 2022](#)

**RETRACTED ARTICLE: Human character identification using facial features and optimised deep convolutional neural network**

[Srinivas Adapa](#)  & [Vamsidhar Enireddy](#)



# Zombie AI

The philosopher Shannon Vallor, University of Edinburgh, argues that there are many garbage/zombie systems out there.

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## **RETRACTED ARTICLE: Criminal tendency detection from facial images and the gender bias effect**

[Mahdi Hashemi](#)  & [Margeret Hall](#)

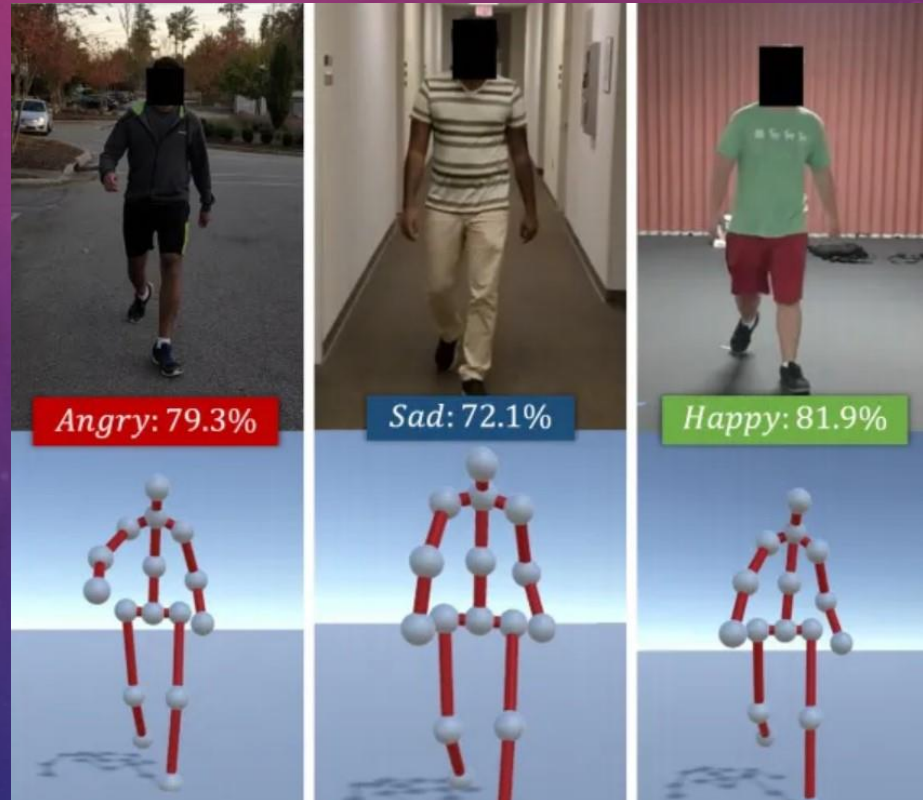
[Journal of Big Data](#) **7**, Article number: 2 (2020) | [Cite this article](#)

**15k** Accesses | **12** Citations | **98** Altmetric | [Metrics](#)

# Zombie AI

The philosopher Shannon Vallor, University of Edinburgh, argues that there are many garbage/zombie systems out there.

AI identifies emotion based on your walking. Even if that is possible, is that then something we want to see in our local shopping mall?



# What about truth? In the age of chatGPT and similar bots.

## Truth in the age of chatGPT?

A fake news frenzy: why ChatGPT could be disastrous for truth in journalism

For the purposes of journalism, they can create vast amounts of material - words, pictures, sounds and videos - very quickly. The problem is, they have absolutely no commitment to the truth. Just think how rapidly a ChatGPT user could flood the internet with fake news stories that appear to have been written by humans.

<https://www.theguardian.com/commentisfree/2023/mar/03/fake-news-chatgpt-truth-journalism-disinformation>

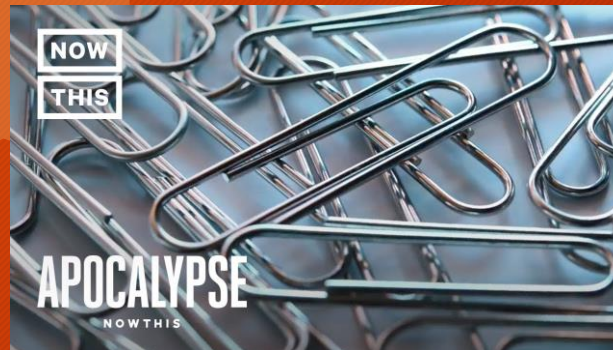
## Zombie AI



A really big problem: The value alignment problem.  
Optimization for just 1 parameter. E.g. Profit or Control.  
Compare with “optimization” in education where we want to optimize for "Presence",  
"Curiosity", "Courage", "Resilience", “Ethics” & “Personal leadership”.



Consequences of Misaligned AI  
Simon Zhuang, Dylan Hadfield-Menell  
<https://arxiv.org/abs/2102.03896>



The value alignment problem in AI: Look at a common situation, where the user’s true goals are only expressed to an AI system through proxies. This initially leads to positive utility. But decreases to negative utility over time as the AI system over-optimizes for the proxy objective.

<https://generallyintelligent.com/podcast/2021-05-11-podcast-episode-10-dylan-hadfield-menell/>

<https://cepr.org/voxeu/columns/ai-and-paperclip-problem>

Danske traditioner vedr. undervisning.  
Vi ønsker at fastholde...

Udfordringer  
når der  
introduceres  
ny teknologi.

*Better:  
Working actively on  
creating positives.*

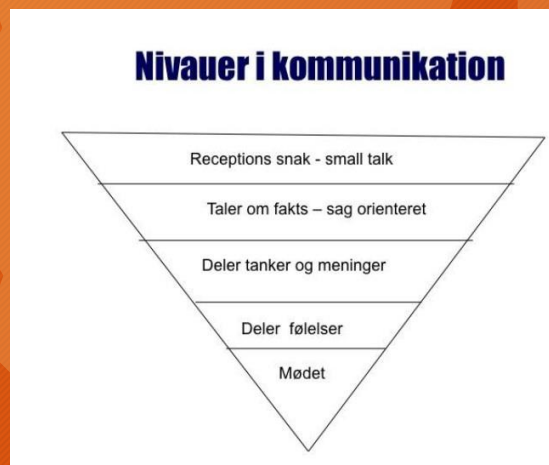
## Det levende ord:

Danmark gennem Grundtvig har et folkeoplysningsbegreb, der giver- også med Kierkegaards indflydelse - et mere livsfilosofisk dannelsessyn, der accentuerer det subjektive og følelsesmæssige aspekt.

Masterspeciale i IKT & Læring. Aalborg Universitet 6/7-2006  
Rasmus Forman

# Danske traditioner vedr. undervisning. Vi ønsker at fastholde...

- Uenighed skal have plads og samtalen skal være ligeværdig
- Tydelighed er vigtig
- Vrede, irritation, frygt kommer i vejen for ”Den gode dialog”



***Better:  
Working actively on  
creating positives.***

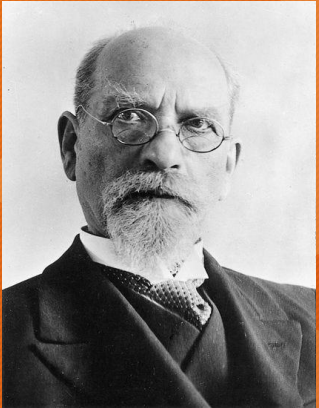
Tilfældigt opslag vedr.  
”god kommunikation”.

Lyt til svaret i stedet for at tænke  
over hvad du selv vil sige.

- Hvad (mener du når du siger...)
- Hvornår (har du det sådan...)
- Hvem (synes du også kunne)
- Hvorfor (synes du at ...)

- Undlad at kritisere personligt
- Undlad at komme med gode råd før du bliver spurgt.

Danske traditioner vedr. undervisning.  
Vi ønsker at fastholde... *Kritisk tænkning*.



*Philosophy on what to do about a world we do not know (that much) about.... Is there only one way?*

Well:

Husserl argued that phenomenology was the study of the very nature of what it is to think, "the science of the essence of consciousness" itself.

- Phenomenology, in Husserl's conception, is primarily concerned with the systematic reflection on and study of the structures of consciousness and the phenomena that appear in acts of consciousness.
- Phenomenology is the study of phenomena: literally, appearances as opposed to reality. Naturalism takes objectivity as its point of departure, phenomenology asks how objectivity is constituted in the first place.

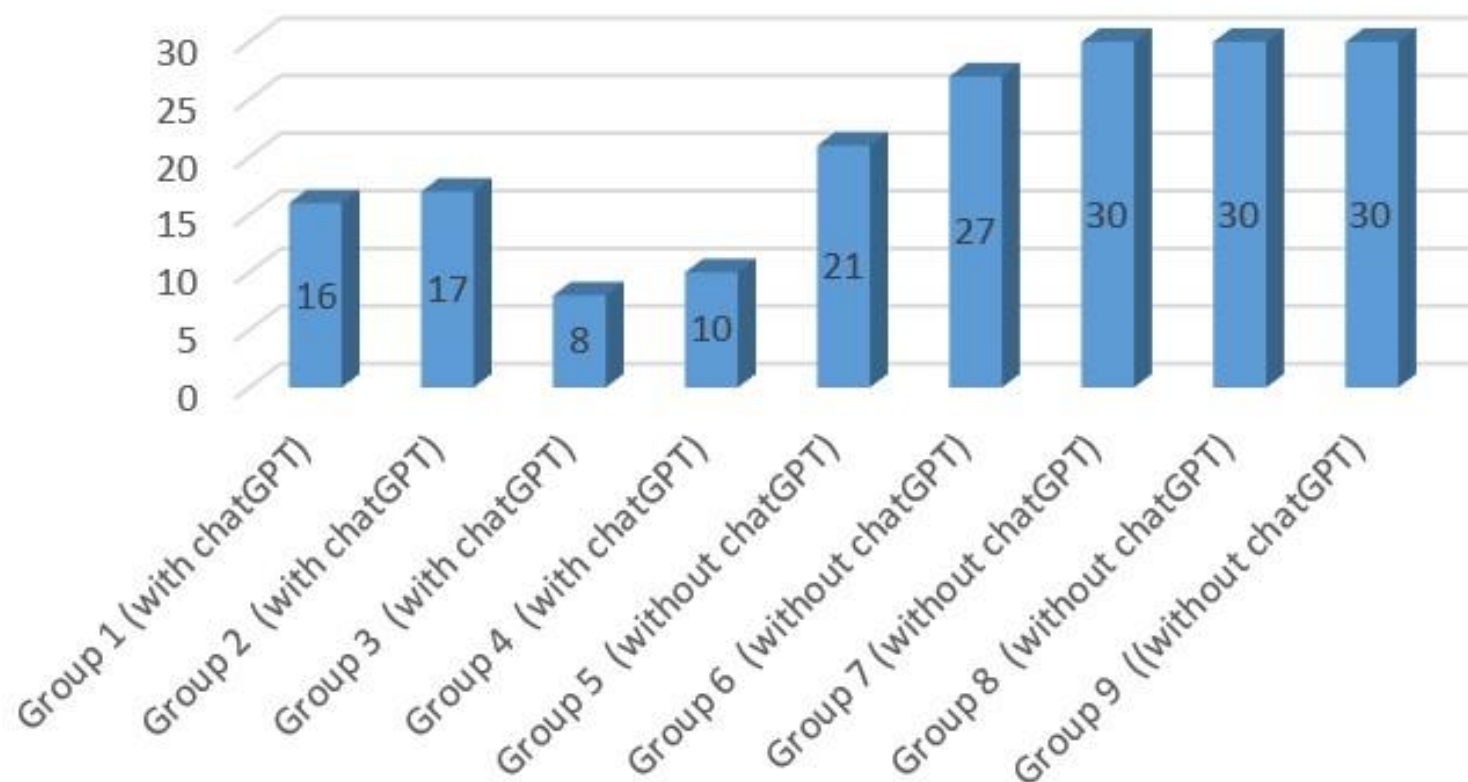
[https://en.wikipedia.org/wiki/Phenomenology\\_\(philosophy\)](https://en.wikipedia.org/wiki/Phenomenology_(philosophy))

Udfordringer  
når der  
introduceres  
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4. ChatGPT & Undervisning. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

## ChatGPT i klasseværelset:

Time to complete programming task (minutes)



Forsøg i klassen.

En rutine opg. (relativt simpel opg) vedr. Python programmering.

Forskel i tid på at bruge chatGPT - og ikke bruge chatGPT til "rutine" opgave.



4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

Everyone wants to work with chatGPT.  
Well, because: Faster...  
Survey in Eaaa class, April 2023.

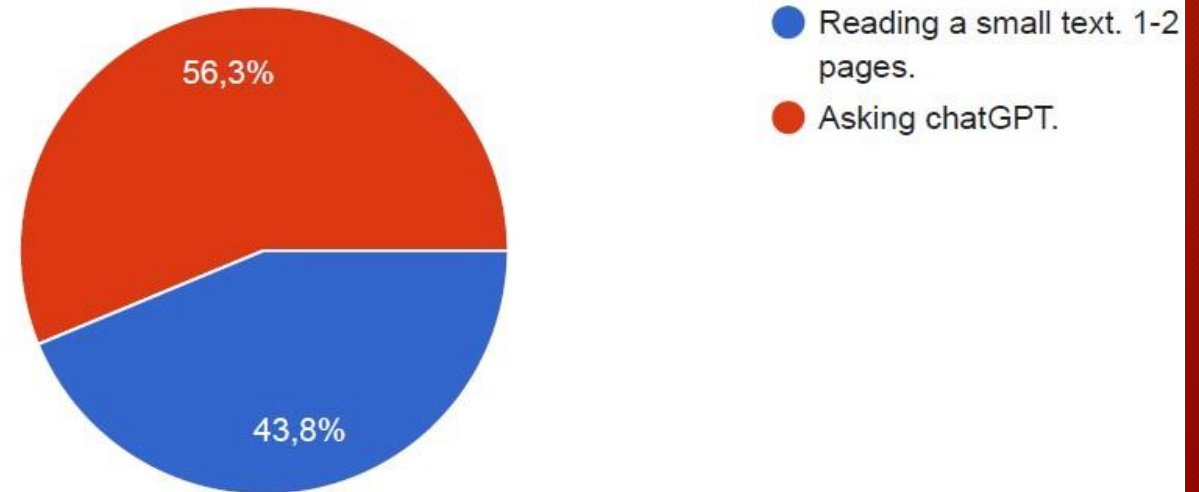
Det tager lang tid at lave gode prompts.  
Er det en god måde at arbejde på?

Hvad foretrækkes.

- At læse en kort tekst på papir eller at arbejde med chatGPT?
- Er et mix det bedste?
- Hvis man er ordblind kan det være et hård arbejde at arbejde meget med prompt engineering.

When you are asked to learn something new. Do you now prefer reading a small text about it. 1 - 2 pages. Or asking chatGPT about it.

16 svar



Students working with  
chatGPT prompt engineering at  
Eaaa. Survey, April 2023.

Everyone wants to work  
with chatGPT.

Well, because: Faster, higher productivity...  
Survey in Eaaa class, April 2023.

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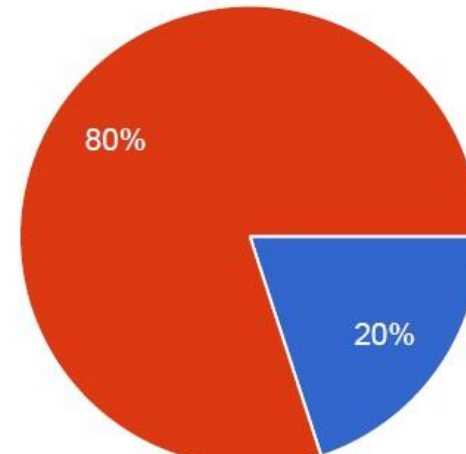
- At læse en kort tekst på papir  
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- Er et mix det bedste?

- Hvis man er ordblind kan det være et  
hård arbejde at arbejde  
meget med prompt engineering.

Imagine that the teacher gives you an assignment to read 50 pages,  
that include graphs, and some pages with technical text, that it will  
take you some time to read. Then imagine that ChatGPT can give you  
a summation of this text.

15 svar



- If the teacher ask me to read the text, it must mean that the text is valuable. So I will read the original text.
- Asking chatGPT for a summation will be way easier. And save me a lot of time. So I will prefer that.

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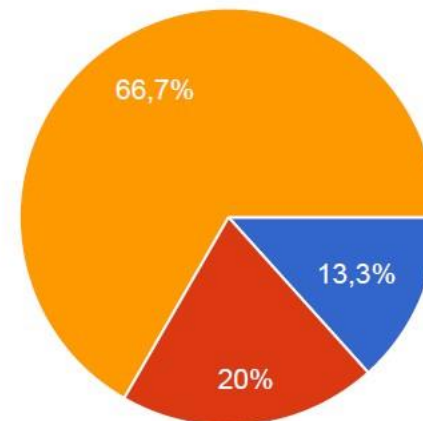
*Forståelse kræver at man arbejder  
med tingene. Og ser det fra flere  
vinkler.*

(Min) foreløbige konklusion:  
chatGPT risikerer at blive en sovepude.  
At læse tekster (fra eksperter) er hårdt  
arbejde - Men det giver dybde læring.  
- Vigtigt (også) at lære fra  
”autoriserede eksperter”...

Opgave med at finde den rette  
”dosering med chatGPT” i  
undervisningen.

Imagine that the teacher gives you an assignment to read 50 pages,  
that include graphs, and some pages with technical text, that it will  
take you some time to read. chatGPT can give you a summation of this  
text. How will you make sure that you aren't missing something  
essential?

15 svar



- I generally trust chatGPT to give the most important facts. So this is not a problem.
- I will chance it that chatGPT has given me the correct information. And then it is the teachers responsibility to quiz me later on to make sure that...
- Sometimes I will have to read the full texts. In order to understand the material fully.

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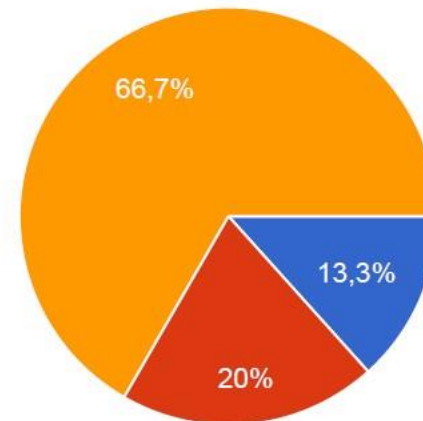
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- Er et mix det bedste?

- Hvis man er ordblind kan det være et  
hård arbejde at arbejde  
meget med prompt engineering.

Imagine that the teacher gives you an assignment to read 50 pages,  
that include graphs, and some pages with technical text, that it will  
take you some time to read. chatGPT can give you a summation of this  
text. How will you make sure that you aren't missing something  
essential?

15 svar



- I generally trust chatGPT to give the most important facts. So this is not a problem.
- I will chance it that chatGPT has given me the correct information. And then it is the teachers responsibility to quiz me later on to make sure that...
- Sometimes I will have to read the full texts. In order to understand the material fully.

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

4. ChatGPT. hjælp til at ræsonere/lære.

Skal være faktabaseret.

Der kræves: Plugin til f.eks. WolframAlpha.

Min mening:

De studerende skal stadig aflevere referencer til kilder (Det er ikke "forældet" - man kan ikke bare refererer til chatGPT).

A screenshot of a ChatGPT interface. On the left, there is a document titled "Wolfram|Alpha as the Way to Bring Computational Knowledge Superpowers to ChatGPT" dated January 9, 2023. The document contains a diagram comparing ChatGPT and Wolfram|Alpha. A green arrow points from the diagram to a dark grey installation prompt for the Wolfram plugin. The prompt says "Wolfram" and "Install" with a circular arrow icon. Below the prompt, it says "Access computation, math, curated knowledge & real-time data through Wolfram|Alpha and Wolfram Language". On the right, the ChatGPT interface shows a dropdown menu set to "Used Wolfram" and a response: "Here is the current configuration of Jupiter's Galilean moons:" followed by a diagram of the moons and a table of their properties. The date "March 23, 2023" is visible at the bottom right of the interface.

Moon	Mass (kg)	Average Radius (mi)	Rotation Period	Age (billion yr)
Io	$8.9298 \times 10^{22}$	1131.82	42.46 h	4.5
Europa	$4.7987 \times 10^{22}$	969.84	85.22 h	4.5
Ganymede	$1.4815 \times 10^{23}$	1635	7.155 days	4.5
Callisto	$1.0757 \times 10^{23}$	1497.7	16.69 days	4.5

#### 4. ChatGPT. hjælp til at ræsonere/lære.

Sprogmodeller kan ikke tælle.

Der mangler hele forståelses siden.  
Det er "to-do".

SI where imn the ketchup does the letter c appear?

 In the word "ketchup," the letter "c" appears in the third position.

SI In the word ketchup where does the letter t appear?

 In the word "ketchup," the letter "t" appears in the fifth position.

4. ChatGPT.  
Som "undervisnings  
assistent":

Mangler "del" til at  
dirigere undervisningen.

Chain of thought er  
"todo".

4. ChatGPT. hjælp til at ræsonere/lære.

Digitale assistenter i undervisningen.  
Tencent AI - Kina.

Sprogmodeller kan ikke tælle.

Der mangler hele forståelses siden.  
Det er "to-do".



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4. ChatGPT.

Mangler "del" til at dirigere undervisningen.

## Tencent plans to train 10,000 artificial intelligence teachers

Tech

**Tencent-backed AI firm aims to free up parents and teachers from checking children's maths homework**

4. ChatGPT. hjælp til at ræsonere/lære.

Digitale assistenter i undervisningen.

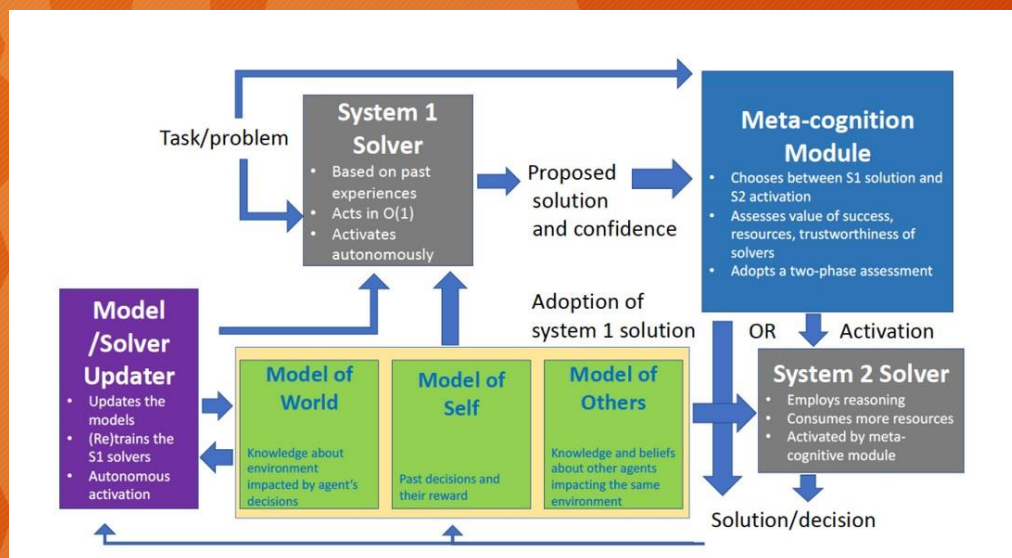
Sprogmodeller kan ikke tælle.

I forhold til at være digital assistant mangler del til at styre undervisningen.

Nej - der er ikke et solver modul i chatGPT...  
Stochastic parrat - oversælges til at være "solver" - human level AI.

4. ChatGPT.

Mangler "del" til at dirigere undervisningen / en del opgave.



Ikke relateret figur vedr. system der dirigerer en proces = "undervisnings assistent".



#### 4. ChatGPT. hjælp til at ræsonere/lære.

Digitale assistenter i undervisningen.

Sprogmodeller kan ikke tælle.

I forhold til at være digital assistant mangler del til at styre undervisningen.

I need you to make a week plan for me, where I have 40 hours to prepare my powerpoint presentation. Goto to fitness for 1 hour twice, do laundry on wednesday. Meet my parents for 2 hours saturday and have a 2 hour romantic walk with my girlfriend sunday on Moesgaard strand. You must add precise time when activities start and end. On average you must schedule 6 hours per day for me to work on my presentation.

Monday:

- Prepare PowerPoint presentation: 9:00 AM - 12:00 PM (3 hours)
- Prepare PowerPoint presentation: 2:00 PM - 5:00 PM (3 hours)
- Fitness: 6:00 PM - 7:00 PM (1 hour)

Tuesday:

- Prepare PowerPoint presentation: 9:00 AM - 12:00 PM (3 hours)
- Prepare PowerPoint presentation: 2:00 PM - 5:00 PM (3 hours)
- Fitness: 6:00 PM - 7:00 PM (1 hour)

Wednesday:

- Prepare PowerPoint presentation: 9:00 AM - 12:00 PM (3 hours)
- Laundry: 1:00 PM - 2:00 PM (1 hour)
- Prepare PowerPoint presentation: 3:00 PM - 5:00 PM (2 hours)

Thursday:

- Prepare PowerPoint presentation: 9:00 AM - 12:00 PM (3 hours)
- Prepare PowerPoint presentation: 2:00 PM - 5:00 PM (3 hours)
- Fitness: 6:00 PM - 7:00 PM (1 hour)

#### 4. ChatGPT.

Mangler "del" til at dirigere undervisningen.

"Stochastic parrot" - der ikke har planlægning - eller "tænkning", intet "logik modul"

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentieret læring.

*Hvad skal vi så bruge chatGPT til?*

- *Svært tilgængeligt stof kan til en vis grad yderligere belyses af chatGPT.*
- *Givet injection af "truth" i prompts.*
- *Og givet styring af hvordan "curriculum præsenteres for den studerende i samtalen".*
- *Mm.*
  - Arbejde med teknik, for nutidige rammer.
  - Sammenholdt med at fastholde ordentlig pædagogik.

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

Men kan man så ikke lave sin egen digitale assistent?

Forskellige ideer er fremme. Chain of thought prompting mm.  
Ingen varedeklaration fra OpenAI der siger hvad der kan lade sig gøre.

Men der er basalt set **INGEN** forståelse i chatGPT.

Dvs. alt en lærer gør ,der kræver forståelse, skal så "scriptes" - der skal kodes hukommelse, states osv. over den studerende. Også model for hvor den studerende er. Det er vores opgave....

Min mening:

Lige nu: Måske muligt med meget små opgaver (30 min) - scriptet - Men ingen generalisering til human-level undervisnings assistent.

*Vigtigt: Undervisning der virker for Eaaa studerende...*

*Derfor skal vi selv lave eksperimenter, selv have forståelsen, in house. Og selv kunne planlægge egne undervisningsforløb med den her hjælp, med egne værdier.*

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

## *Cooperativ learning eksperimenter med chatGPT i klassen.*

(min foreløbige) Konklusion (1 semester med chatGPT i klassen)

Ikke samme grad af fastholdelse i øvelser - som kooperativ learning med medstuderende.

Reelt: Stort behov for opsummering i slutningen af timen. Mange i klassen bliver hurtigt trætte. Og zoomer ud af opgaver som er baseret på interaktion med chatGPT.

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

## *Differentieret undervisning i klassen.*

(min foreløbige) Konklusion (1 semester med chatGPT i klassen)

Differentiering.

De svage i klassen zoomer stadig ud. Måske endnu mere.

Ikke samme grad af fastholdelse

i øvelser - som kooperativ learning med medstuderende.

Igen. Stort behov for opsummering i slutningen af timen. Mange i klassen bliver hurtigt trætte.

Og zoomer ud af opgaver som er baseret på interaktion med chatGPT.

(min) afsluttende konklusion.

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

### *Jeg/personligt tænker at:*

- Meningen med undervisning er mere undervisning :)

Ikke kun/udelukkende at "fitte" ind i en niche på arbejdsmarkedet her og nu.

Derfor ser jeg ikke noget problem i at få hjælp af digitale assistenter i den nære fremtid.

Jo bedre undervisning til den enkelte studerende. Jo bedre.

Men undervisning/læring er svært... ingen mirakel kur.

Men ser det som alfa og omega, at vi er med i forståelsen og udviklingen af dig. undervisning. Både i EU, I Danmark - og i forhold til vores studerende på Eaaa. Meget mere omfattende end "tilrette et produkt fra US/Kina.

Kommer der ikke bare produkt man kan købe sig ind i om nogle år ...?

Måske. Men så er man ikke med til at styre udviklingen. Med vores værdier, og mening om undervisning. Og vi risikerer at "sælge os selv, udviklingen og vore studerende til noget vi ikke bryder os om". Remember: Alignment.

Hvornår skal vi gå igang med at være aktive med at definere udviklingen...?

Igår... Det er en enorm opgave. Hvor underviningssektorens fremtid er på spil.

(min) afsluttende konklusion.

4. ChatGPT. Øget produktivitet i rutine opgaver, hjælp til at ræsonere/lære, cooperative learning og sammenfatning/læring, differentiering.

### *Jeg/personligt tænker at:*

- Klart mandat - om at lave bedre, mere individualiseret, moderne, undervisning der gør brug af AI. Men også er klar på at der er begrænsninger i AI. Med **manglende planning logik** osv. Som gør at lærere i den overskuelige fremtid stadig er dem der står for undervisningen - Klarhed om det: Gør at der fjernes "frygt".

### *Erfaringer fra healthcare. Introduktion af AI der.*

Oversolgt. Uklar ledelses kommunikation.  
Aldrig opfyldte rationaliserings gevinster....?

(min) afsluttende konklusion.

Plan for the future...

In the 70's the BBC made a documentary, 1978's "Now The Chips Are Down".  
[https://en.wikipedia.org/wiki/Now\\_the\\_Chips\\_Are\\_Down](https://en.wikipedia.org/wiki/Now_the_Chips_Are_Down)

*Jeg/personligt tænker også at der er behov for "folkeundervisning" om ny teknologi.*

In the late 1970s, the microprocessor stopped being a quirky outlier of a computing industry that was largely isolated from everyday experiences. Instead, people realized that microprocessors were going to infiltrate everywhere and change lives across the board - especially jobs.

[https://www.theregister.com/2023/05/15/will\\_llms\\_take\\_your\\_job/](https://www.theregister.com/2023/05/15/will_llms_take_your_job/)

***Better:  
Working actively on  
creating positives.***

The BBC made a documentary, 1978's "Now The Chips Are Down", as part of its well-established Horizon series. The ending was unusually forceful: "What is shocking is the government has been totally unaware... the silence is terrifying. It's time to talk about the future."

This hit home. Three years later, the UK government kicked off the Microelectronics Education Programme (MEP) and backed the BBC's Computer Literacy Project.



Ai & ChatBots.

Netværksmøde for studievejledere fra erhvervakademierne.

23 Maj 2023.

Simon Laub, sila@eaaa.dk



Tak !