

Kunstig intelligens,

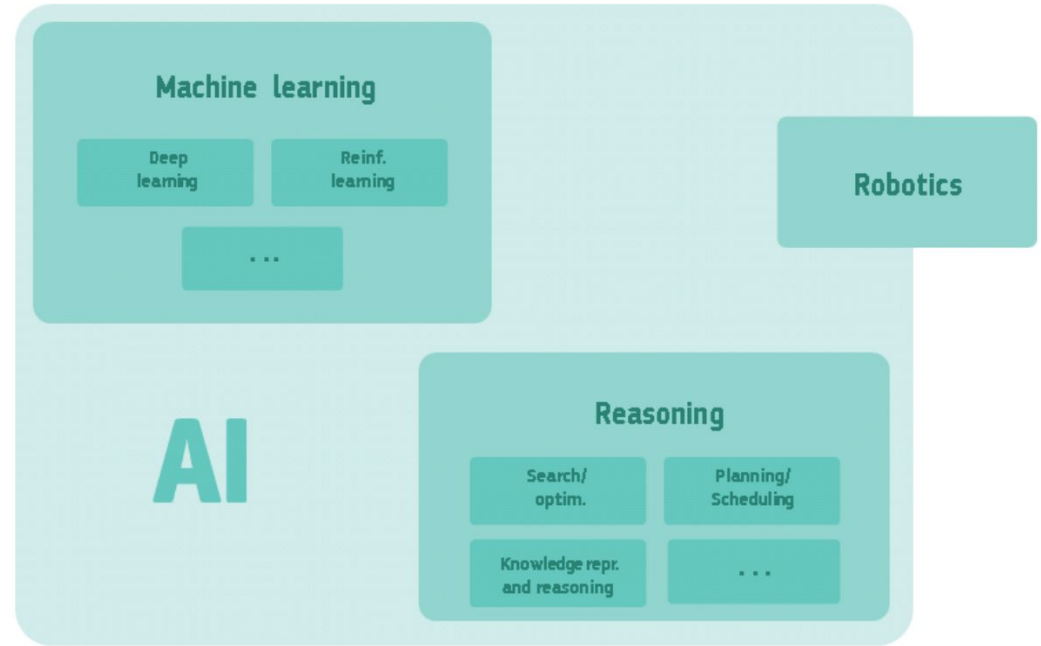
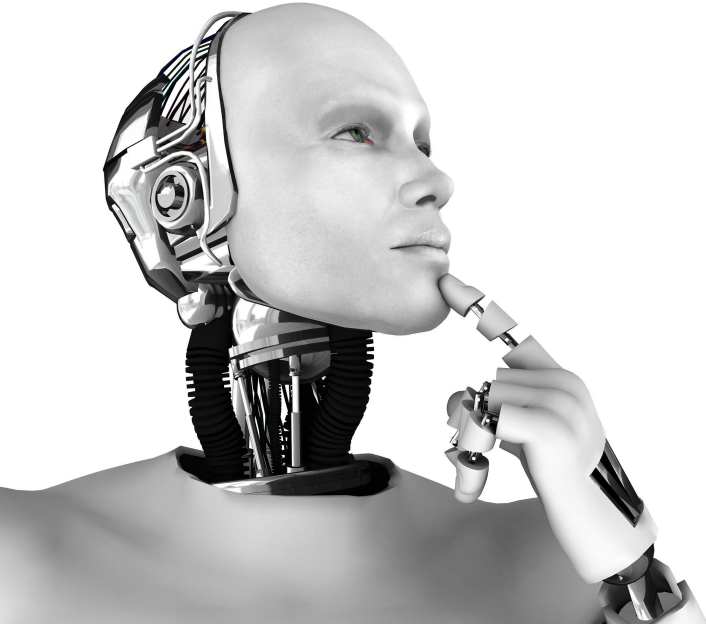
maskinlæring

og andre problemer



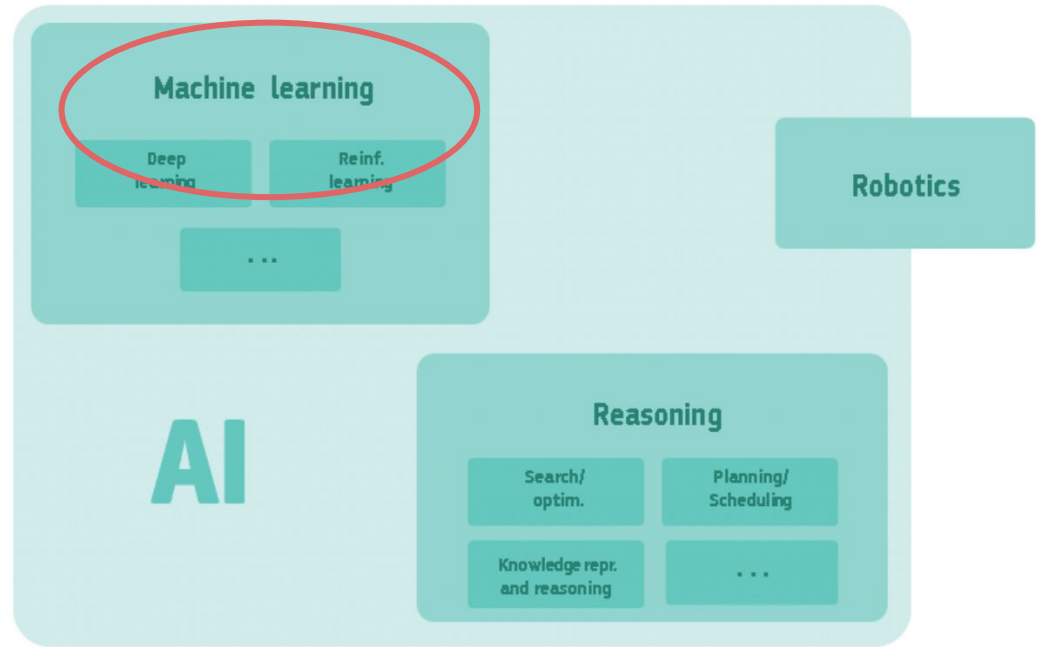
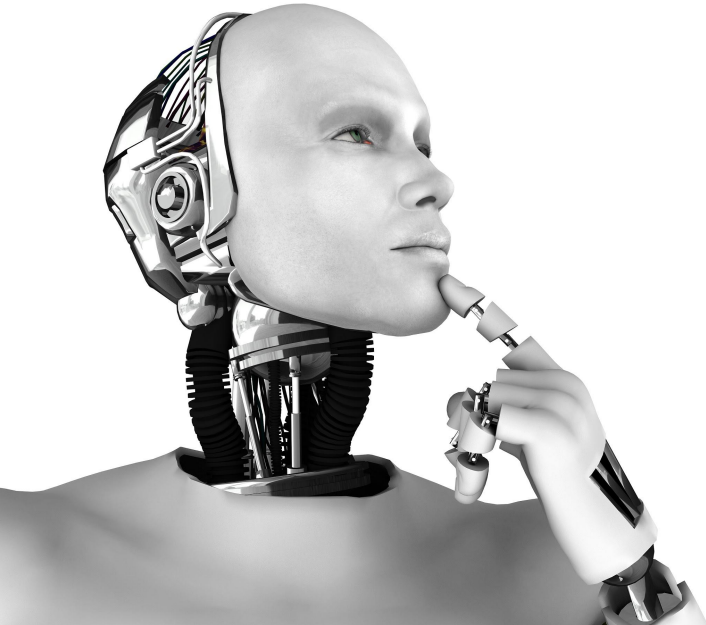
Hva er greia?

1. *Salgspitch*
2. *Det uoppnåelige*
3. *Tidens samlebetegnelse*

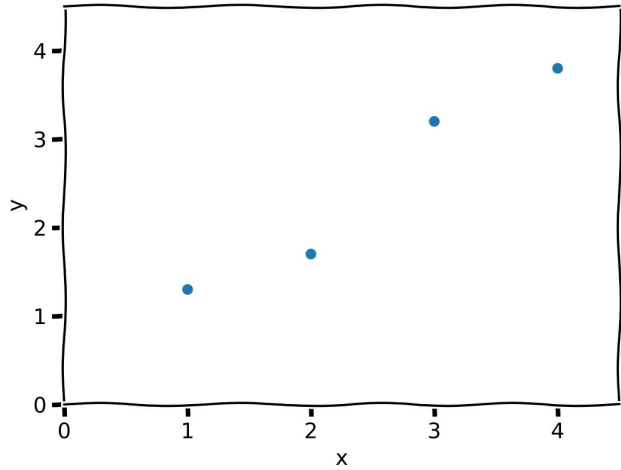


Hva er det nye?

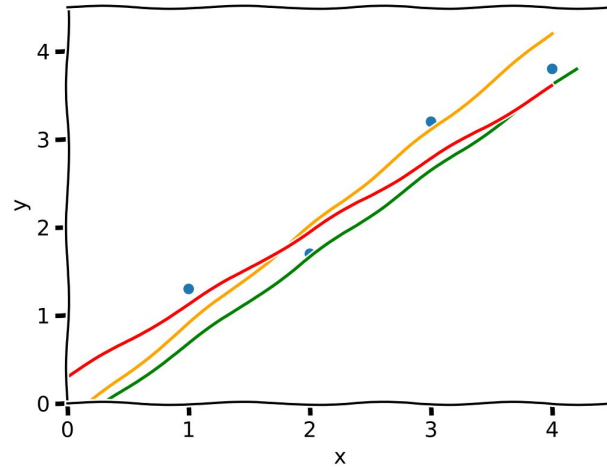
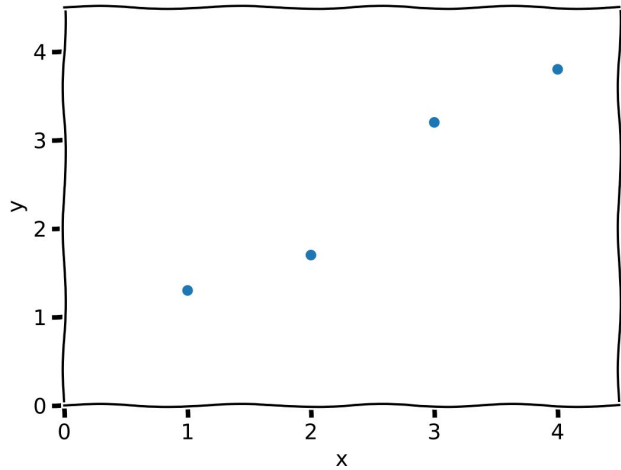
- *Data*
 - *Regnekraft*
- ⇒ *Maskinlæring*



Maskinl ring p  30 sekunder



Maskinlæring på 30 sekunder



Maskinlæring ... i Excel



1. Data

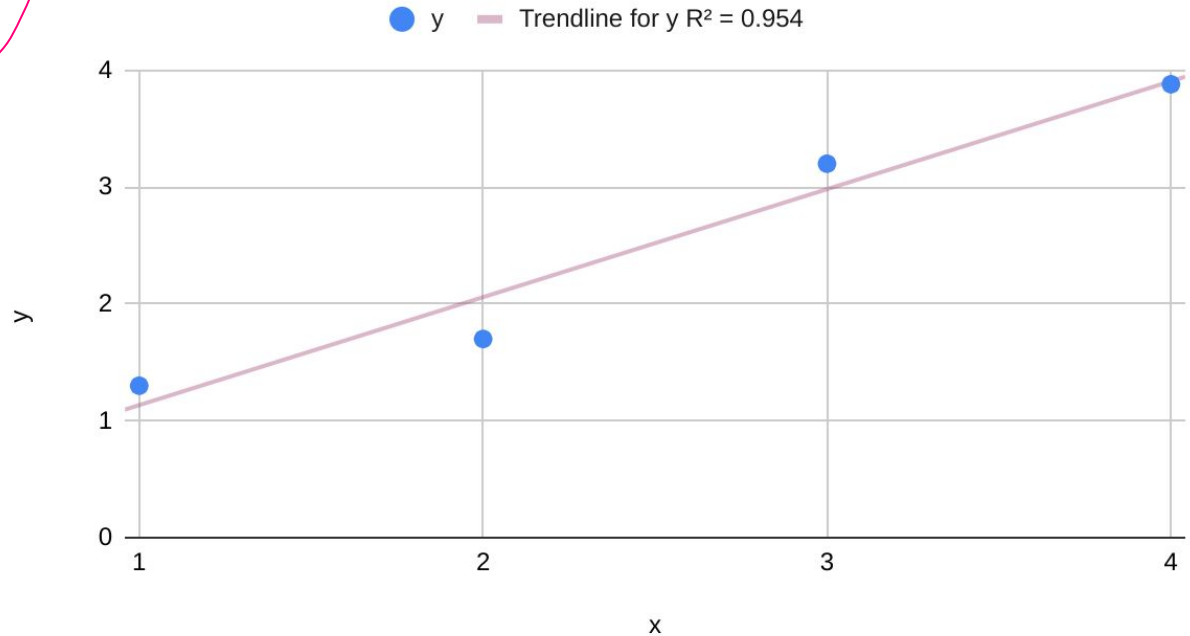
2.

Regnekraft

3. Mål

x	y
1	1.3
2	1.7
3	3.2
4	3.88

$$R^2 = \left(\frac{1}{n-1} \frac{\sum (x-\mu_x)(y-\mu_y)}{\sigma_x \sigma_y} \right)^2$$



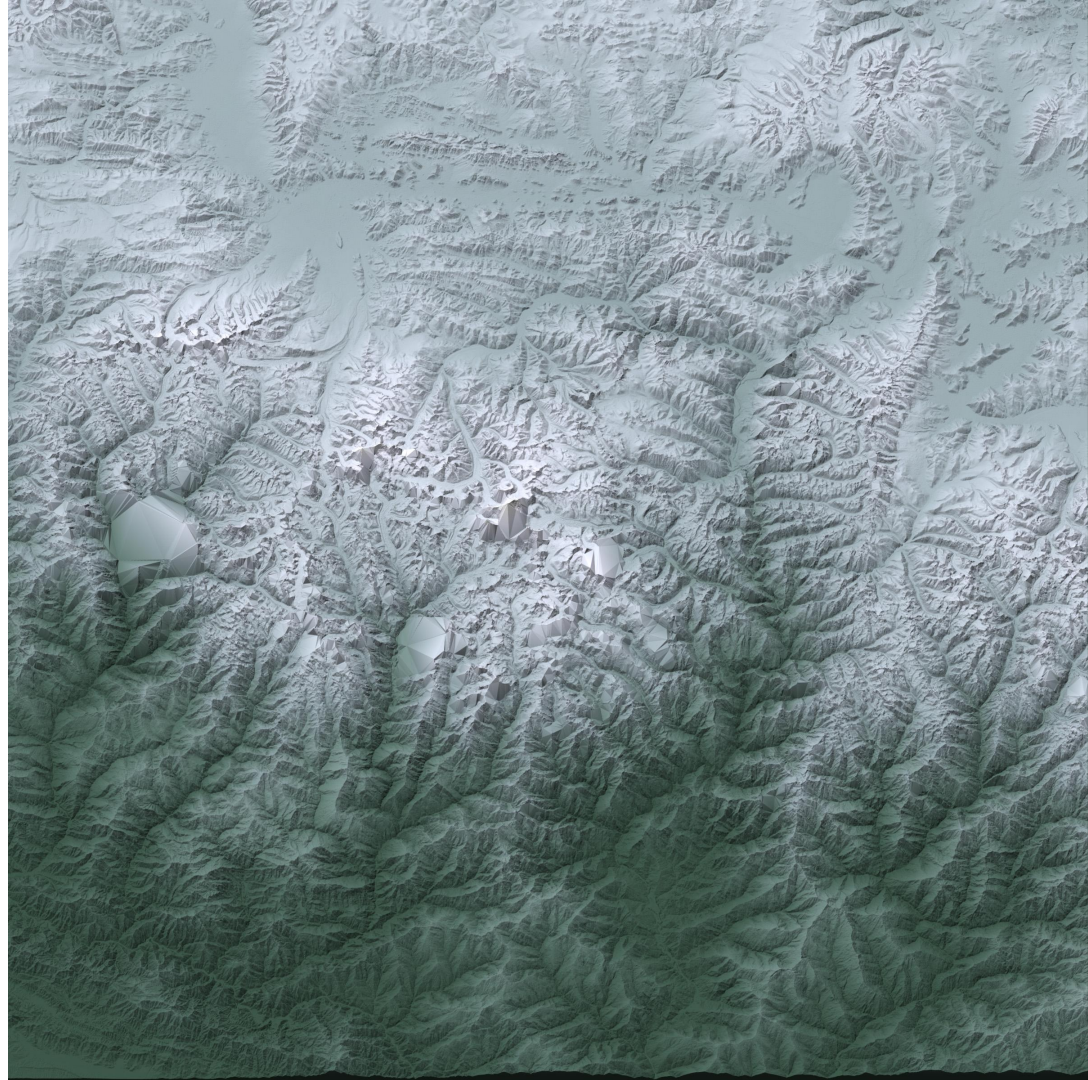
Maskinlæring

Bruke data til å prøve seg frem til den løsningen som oppnår målet best.

≈ Løpe rundt i Himalaya med bind for øynene og prøve å finne høyeste punkt.

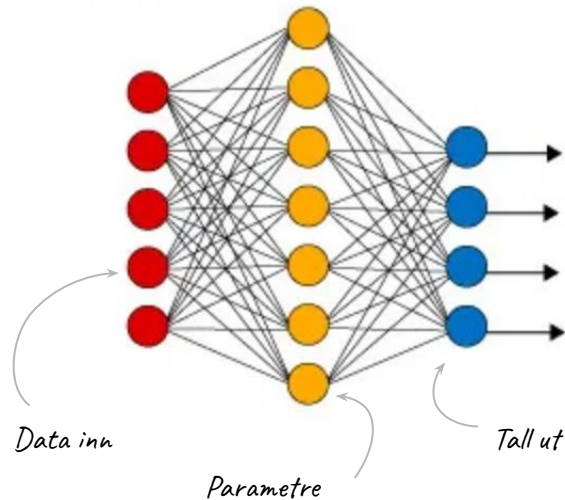
Everest? Anapurna?

Finner en topp!



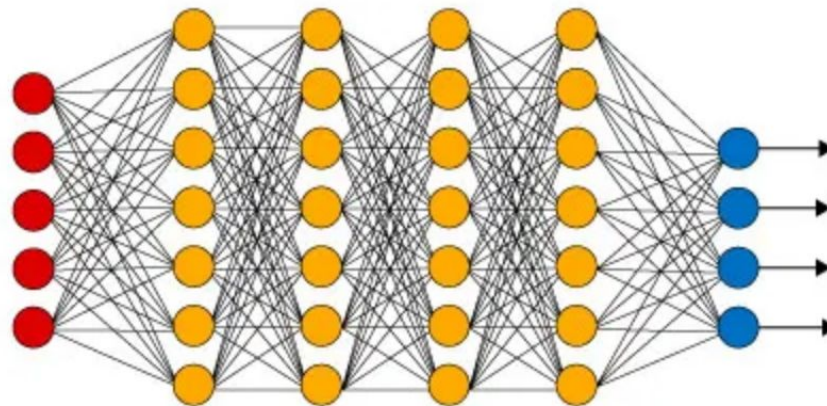
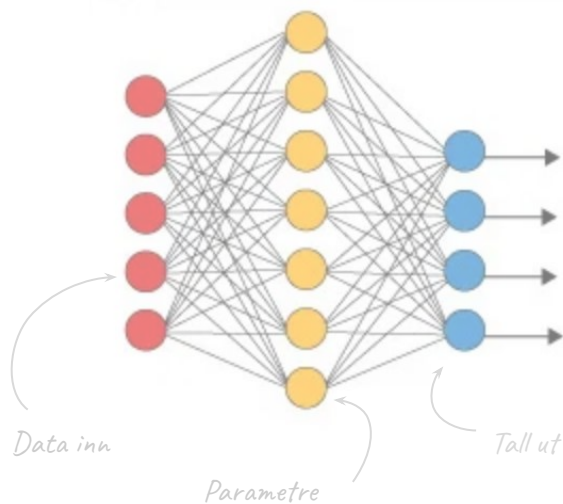
Maskinl ring!!!

Nevralt nettverk: Mange parametre som kan tilpasses og kombineres for   oppn  m let

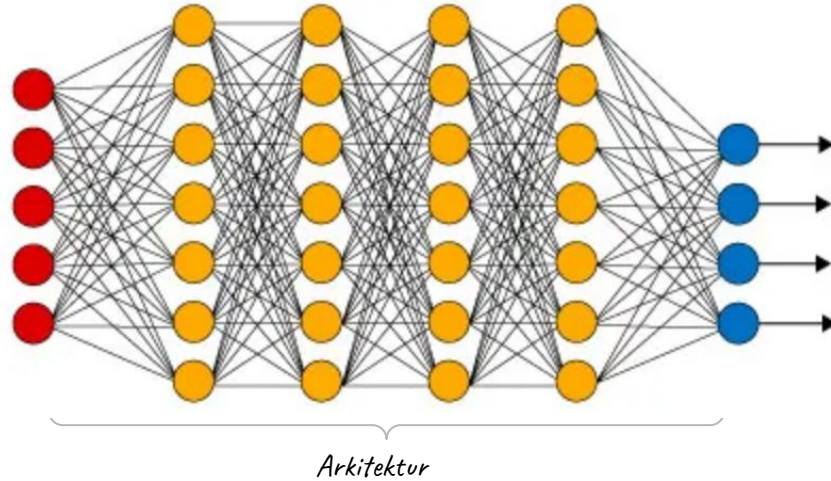


Maskinl ring!!!

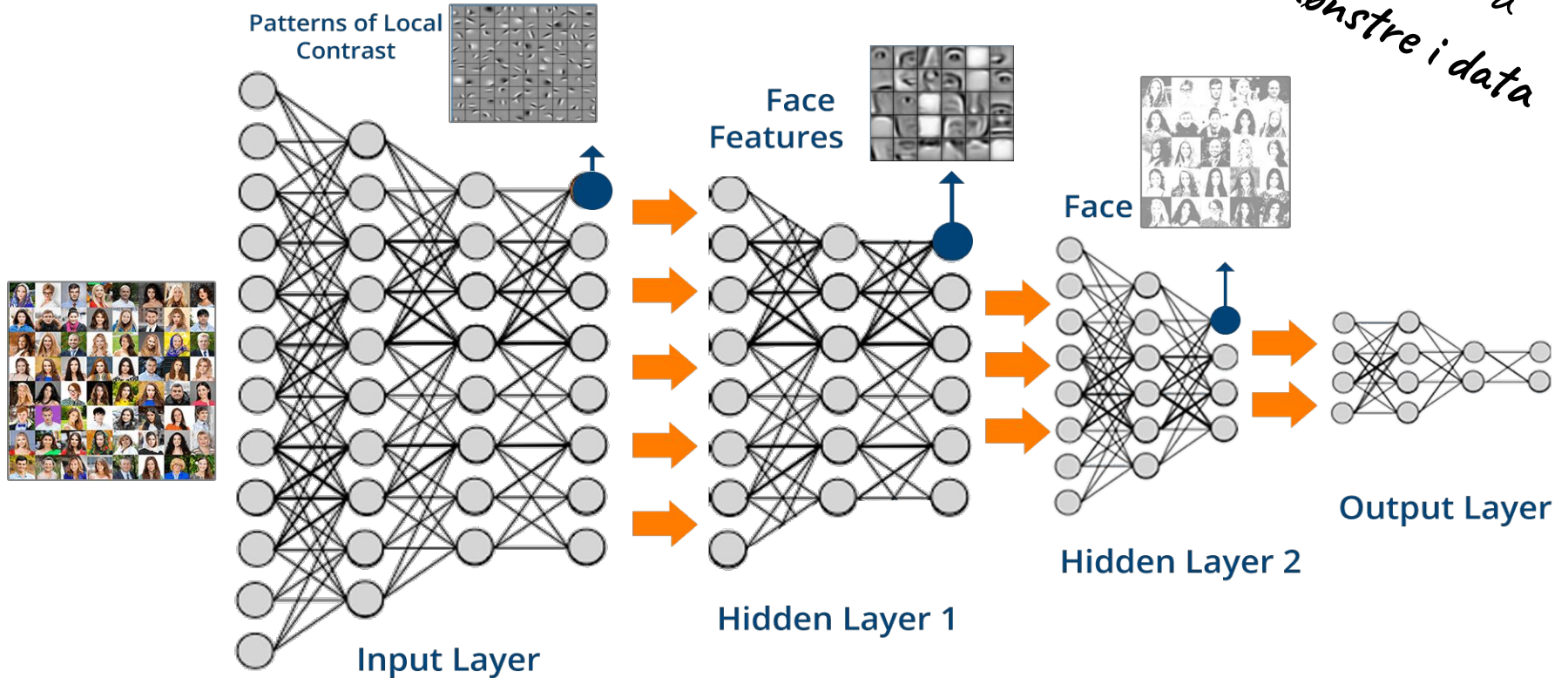
Dypt nevralt nettverk: MANGE parametre som kan tilpasses og kombineres



Parametrene er funksjoner av dataene

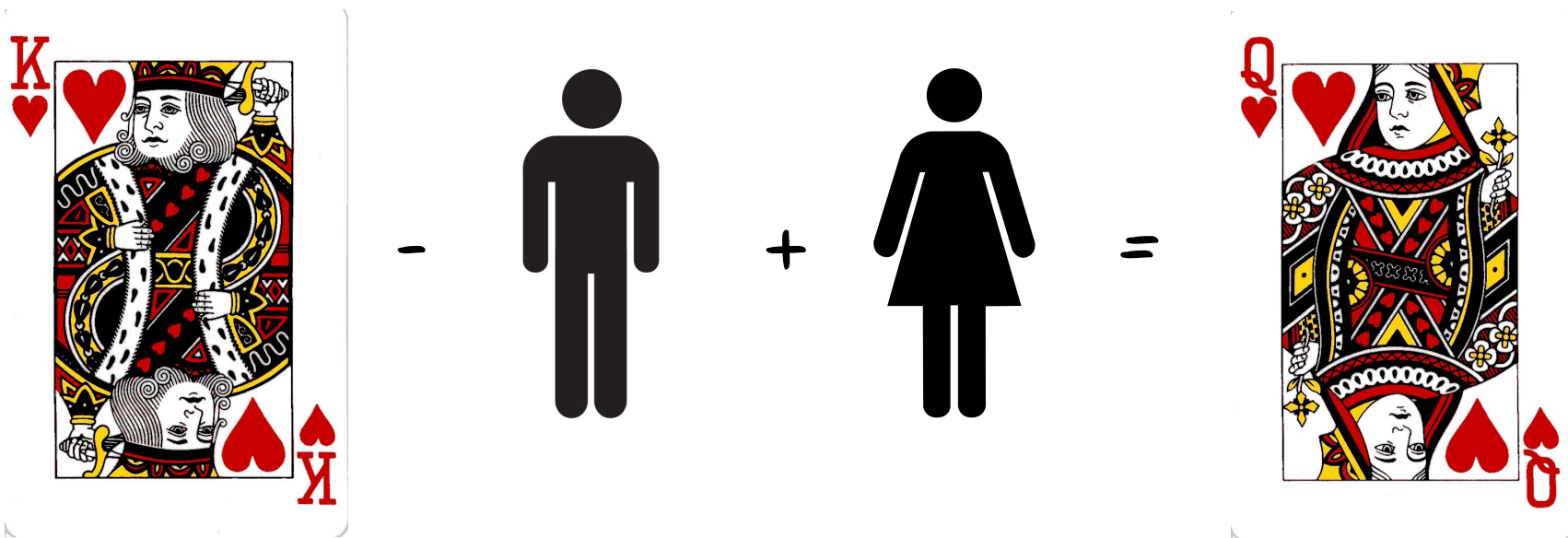


Ansiktsgjenkjenning



Språkforståelse

NLP (Natural Language Processing)



Artificial intelligence (AI)

New AI fake text generator may be too dangerous to release, say creators

The Elon Musk-backed nonprofit company OpenAI declines to release research publicly for fear of misuse

Alex Hern

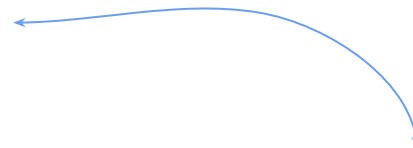
@alexhern

Thu 14 Feb 2019 17:00 GMT

f t e 7,020 572



▲ The AI wrote a new passage of fiction set in China after being fed the opening line of Nineteen Eighty-Four by George Orwell (pictured). Photograph: Mondadori/Getty Images



talktotransformer.com/

Talk to Transformer

Custom prompt

Lawyers are secretly

Generate Another

Completion

Lawyers are secretly negotiating the terms of a Trump Tower meeting Donald Trump Jr. had with a Kremlin-connected lawyer in June 2016, BuzzFeed News has learned.

Siste nytt innen språkmodeller

GPT-3: Generative Pre-trained Transformer

Enorm (175 milliarder parametre)

One-shot learning

Tolk, programmerer, poet, forfatter, ...

Trening tilsvarer ~57 menneskeliv i karbonavtrykk

GPT-3: The First Artificial General Intelligence?

towards
data science



If you had asked me a year or two ago when Artificial General Intelligence (AGI) would be invented, I'd have told you that we were a long way off. I wasn't alone in that judgment. Most experts were saying that AGI was decades away, and some were saying it might not happen

Hvor brukes AI?

Persontilpasning: *Bedre løsninger* og *personlig tilpasset manipulasjon*

Automatisering: *Effektiv utførelse* og *trussel mot arbeidsmarkedet*

Ansiktsgjenkjenning: *Non-stop gjennom Heathrow* og *Uighur-alarm*



Huawei tested AI software that could recognize Uighur minorities and alert police, report says

Huawei representatives [said](#) the document outlining the “Uighur alarm” system, [discovered](#) on the company’s website by the research organization IPVM and [first reported](#) by The Washington Post, used language that is “completely unacceptable.” “It is not compatible with the values of Huawei,” a representative [told the BBC](#). “Our technologies are not designed to identify ethnic groups.”



Hva er det: *Automatisering, maskinlæring, robotisering, ...*

Muligheter: *Lære fra data, automatisere prosesser, ...*

Utfordringer: *Uklart regulatorisk landskap,*

korrelasjon \neq kausalitet,

propagere fordommer,

undefinert utfallsrom,

forklarbarhet,

osv, osv



Tusen takk! <3

