



Trening

Uten trening

"You must decide for yourself," said Elizabeth

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"You must decide for yourself," said Elizabeth gra buseriteand the utharth s atouchanders nd shadeto the se owrerer o thino athe athetlf w wad asire tutor t m wo sinast othe wo t Mr m ve the Shersour us mass ho'sed t tha shan all athok I rs ofit yo t onchthe axpld ndise fas e trnglad fere sed, orou ke as thelf se wn the tnn cenneng. f hachaplll I fmy n p oth ther o mbe butane. hastamt ok, f warot Bere a unge sen t t they op "Yo she aise tho hiven tise He sus y athire wald wal be, o akrer etlas o

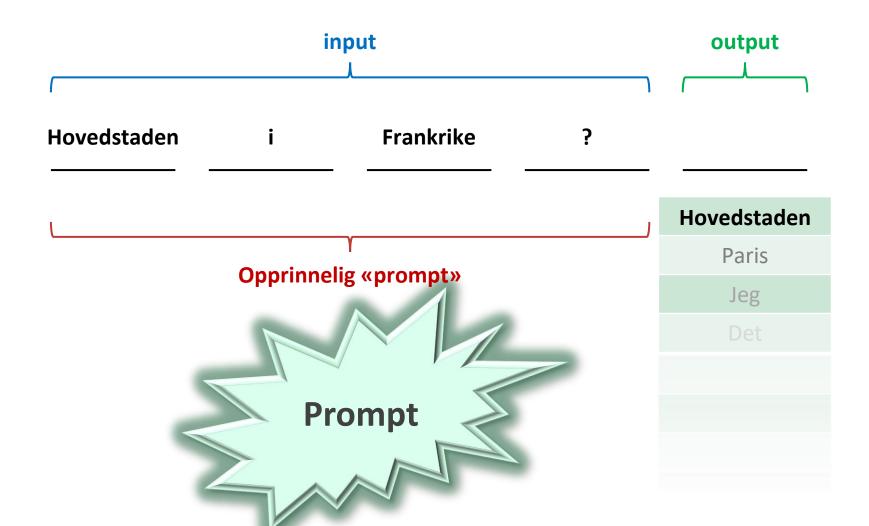
5.000 runder med trening

"You must decide for yourself," said Elizabeth, rather repeated an unhappy confirmed, "as now it is a few eyes," were there at Anne's like walking to meet that she always were quite married that some uncumstant's decent the imagination of side, for their two secondness which going at Here fault would be to the same between the necessary. "He was never known that she began and interest of situation."

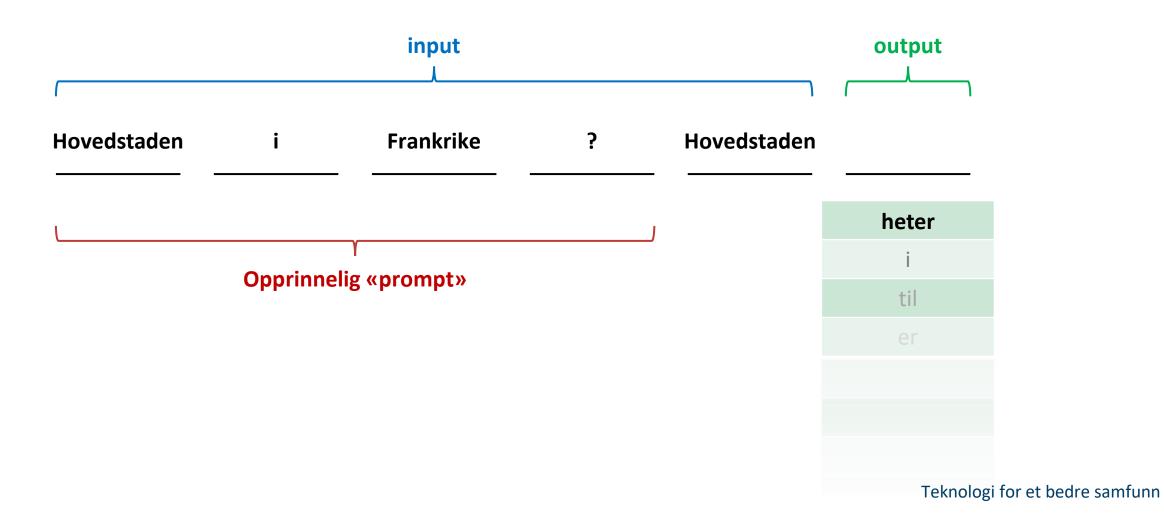
30.000 runder med trening

"You must decide for yourself," said Elizabeth, rather repeatedly; "that is very agreeable displeasure, they will ever be a lively young woman as it will be more disagreeable." "My dear Fanny, who is a match of your present satisfaction, and I am at liberty and dinner, for everybody can be happy to you again; and now when I think I used to be capable of other people, by being hastily used to be forgotten in something of the little first possibility of my usual taste which such a party as this word.

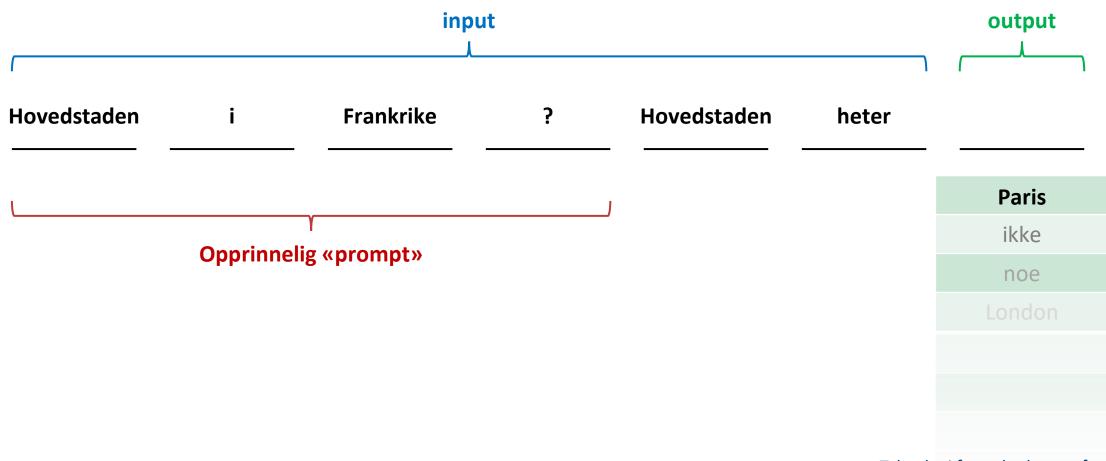






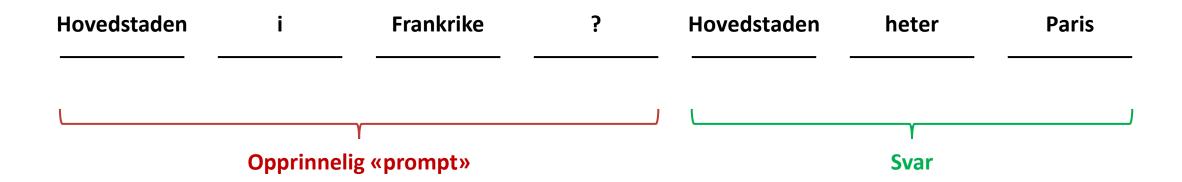






Teknologi for et bedre samfunn



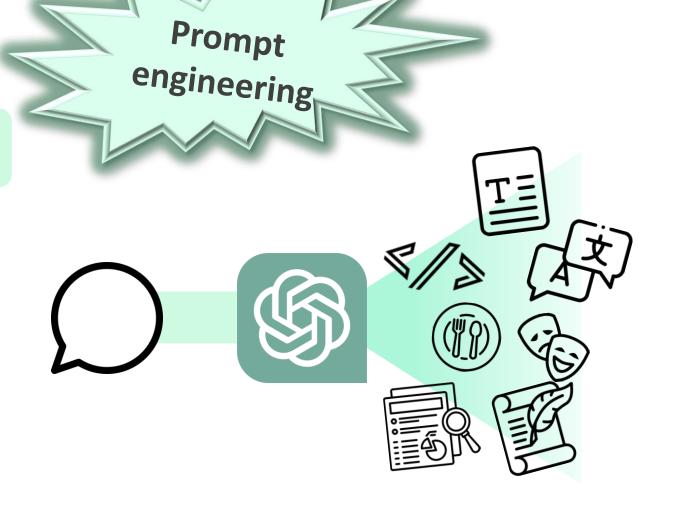




Jeg visste ikke at du kunne dette også!

Vel, du spurte aldri...







Hvordan lage ChatGPT?

Deployable model

Non-deployable model

Commercial product

Train a large language model

Supervised Fine Tuning

Reward Modeling Reinforcement Learning Content Moderation Filter

ChatGPT

- *****: Raw internet texts
- →: A Foundation Model (FM)
- Requires extremly large dataset and resources (low quality, high quantity)
- ****** : Adequate text completion
- : Takes 99% of the time/resources

- ★: Ideal Q/A examples
- →: An Assistant, a
 Supervised Fine Tuned
 (SFT) model
- : 10-100K pairs of [prompt, responses], written by humans (high quality, low quantity)
- ***** : Prompt response proficiency
- 🔅 : Refines the FM

- *****: Ranked completions
- →: A Reward Model (RM)
- : 100K-1M comparisons ranked by humans (high quality, low quantity)
- ****** : Model that can assess prompt reply quality

- 🗱 : Prompts
- → : An Assistant, a Reinforcement Learning (RL) model
- : 10-100K prompts written by humans (high quality, low quantity)
- ****** : Prompt response mastery
- : Refines the SFT model using RL and the RM.

- →: Content filtering on user input and model output
- : OpenAl provides its own Moderation API
- **©**: Content Quality and Compliance Enforcement



Til slutt...

- «Stokastisk pappegøye»: ChatGPT er en språkmodell, ikke en kunnskapsmodell
 - Veien blir til mens den går
 - Hallusinering
 - Output reflekterer treningssettet sitt
- OpenAI: ikke så åpne som de høres ut
 - Mye ukjent
 - Samtalene brukes sannsynligvis til videre trening
- Men... ikke kast barnet ut med badevannet





Teknologi for et bedre samfunn