2b **Answer questions below:**

1. What accordingly Hans-Christian Boss makes AI powerful?

   That the future of business is anything that is a process , can and will be run by an AI program

2. What are the requirements for survival of business?
   1- Strong brand
   2- Innovation
   3- Service

3. What are the 3 types of AI?
   1- Narrow AI
   2- General Ai
   3- Sci-fi stories

2^e

1. Why deep learning is thriving today?

   Because a lot of big companies are using it such as (Google , facebook , amazon) , and that give small companies more secure to work with deep learning and Ai

2. What are three key use cases for AI in business? Describe and explain.

   - Change the way they understand and interact with customers

     Ai can help customers by predicting, such as product predicting system, what products or services customers are likely to want and that's a huge step for marketing to companies

   - Offer more intelligent products and services

     Ai can help businesses create more intelligent products and services to offer to their customers, customers want more intelligent products such as smarter phones , smarter cars , and there are big companies that uses Ai to make more intelligent products such as (Apple, Samsung, Tesla, Uber and Spotify)

- Improve and automate business processes

  Ai can improve and help automate business processes , companies such as JD.com that uses autonomous drones, automated fulfilment centers and delivery robots to transform its retail operations. So it makes process more efficient and accurate

3b Find three newspaper articles on a risk associated with a sub-field of AI (i.e. computer vision, natural language processing, and robotics). Summarize the articles with a maximum of 200 words.

The first risk of Ai and mostly dangerous in my opinion is weapons powered by Ai, Major advances in artificial intelligence (AI) technology in recent years have led to the growing sophistication of military weaponry.

considering technology is becoming increasingly easy, inexpensive, and user-friendly, it will become available to everyone... including those who intend to do harm. One thousand dollars will buy you a high-quality drone with a camera. A whizz-kid could subsequently install software on it which will enable the drone to fly autonomously. Artificial intelligence facial recognition software is available as early as now

The second Risk is Artificial superintelligence (Unsupervised learning), they are able to acquire all manner of skills and expertise without human intervention, they can train themselves for situations unknown to them and are able to understand context.

The technology is far too young to take over, but we should never underestimate of the unknown, specially when we talk about machines who gets more intelligence way faster than humans .

The third risk is too little privacy, companies such as facebook , Instagram , tiktok are consistently saving most of our data, technology will have eyes to see. Cameras can easily be fitted with facial recognition software. Our gender, age and state of mind can be measured with smart software. This is not the future, this type of software already exists

https://jarnoduursma.nl/blog/the-risks-of-artificial-intelligence/

3d In the video she makes the following statement: 'Algorithms are opinions embedded in code'. What do you think she means with this statement, and what are the possible implications that could arise from it? Explain your answer.

Algorithms are basically steps, Algorithms made by program which made by a human, and just like Cathy said we don't live in a perfect world, so the data scantest or the programmer could have some mental problems or stereotype, the possible implications to that, is that algorithms outcome is not fair, it is true according to the Algorithms but the procedures of picking, cleaning , training data got manipulated

3e Provide an risk, benefit, and accompanying AI sub-field per organization listed in the table:

A. Organization	B. AI sub-field	C. Benefit	D. Risk
1. Insurance company	Neural Networks (User behavior prediction) based on age – car - sex	Makes it easier to companies to identify the customers	Racism and treating individuals differently based on their data
2. University	Expert Systems	having smart tools for students gives more motivation and more chance to reach valuable info	Too much freedom and possibilities is a risk for student in a young age
3. Municipality	Vision - Neural Networks	Municipality could make city better by object recognition, for example: damaged streets or NN by classification of neighborhoods	Could make neighborhood classification that would make some neighborhood less attractive to people at some poitns
4. Police	Vision- Speech Processing	Track suspects or murders by their images or calls	Racism and treating individuals differently based on their data

A. Organization	B. AI sub-field	C. Benefit	D. Risk
5. Food retailer	Neural Networks	Predicting the best product for customer based on his data history	
5. Car manufacturer	Robotics - Machine Learning	Makes work more efficient and faster	Impact on labour market, many workers will lose their jobs because of robots