1. forelesning

* AI, ML, DL hva de innebærer osv
* Understand and explain figure page 23 in ppt
* What is data, information, knowledge, understanding = intelligence
* Critical sinking lol

1. forelesning

* ML (steps of building a ML model)

1. Load the data.
2. data preprocessing (missing values, text, image, sound, numbers)
3. split the data into training and testing sets (supervised learning)
4. Standardization (scaling or other)
5. Using algorithms to build it
6. Evaluation

* Feature selection (Remember one of those techniques)
* Scaling

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* ML =  
  - Supervised learning (classification, regression) (Classification = KNN, Naïve bayes, Decision tree, Random forrest, RNN/ CNN) (Regression = Logistic, Linear)   
  - Unsupervised learning (Clustering = K-means (customer segmentation))  
  - reinforcement
* Learn one algorithm for each + one application and one limitation.
* Confusion matrix (explain and understand) evaluation approach (True positive is most important prediction) Recall???

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* Know the difference between supervised and unsupervised learning.
* Supervised = labeled data, x selected features and y targeted features. regression
* Unsupervised = unlabeled data, clustering

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* chatbots = examples, how can it be applied and used; capabilities of chatbots

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* NLP (Natural Language Processing)
* Pipeline = understand it
* Understand how to build an NLP model (page 30) Step fire is use an algorithm, depending on what case u are dealing with. Standardization can be explained more

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* examples for several applications of computer visions (CV)
* explain at least one example and how it works (ML model building steps)
* understand, pixels, rgb channels
* remember one algorithm (SIFT, SURF, ORB)

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* Neural Networks, Explain picture 9 in ppt. Input layers, neurons and channels, output layers = predicted results
* Compares the output layers with target value. If the values don’t match, the weight eill be adjusted
* Ask chatgpt
* Know components of Neural Network (NN) page 12

1. Forelesning

* Deep learning (Only one question)
* CNN vs RNN
* CNN = Images
* RNN = sequential data (text, speech, voice)
* Unstructured data
* Understand the case study (page34) what is cat and what is dog
* Les hele PPT!!!

1. Forelesning

* Ethical issues
* Have a look at some current ongoing debate
* We will be given several cases and I should give arguments for pros and cons