

UNIK4690 Project

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Dairy

Day1

19.04.18

- Feedback on project proposal
- Overview of project
 - simplification
 - binary image \rightarrow numbers \rightarrow straight text \rightarrow Classify
- init; github - atom
- first test of charcter Segmentation

Day 2

26.04.18

- Charcter Segmentation - Projection Histograms - OpenCV
 - By projection the histogram of the binary image on the Y-axis, we can find where the sentences/lines of text appears. Following, a projection histogram on the X-axis can discover where the charecters appear.
- Classification - Perceptron neural network - TensorFlow
 - MNIST dataset - Datasett consisting of several thousand handwritten labeled numbers
 - * Numbers ranging from [0-9]
 - * Images are 28x28pixels
 - Hyperparameter tuning
 - * Activation function
 - * Number of hidden layers
 - * Nodes in hidden layers
 - * Cost function
 - * Optimazation function

- * Learning rate
- Theoretic accuracy of the network with 2 hidden layers 98%
- * Measured accuracy 97%

Day3

03.05.18

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