Dovine

Alex

Meret Schädler

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Machine Learning

Machine Learning Assignment



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# General Information

Group 40

**Name of all group members:**

Alexander van den Akker: Anr. Snr

Dovile Kliusovaite Anr. Snr

Meret Schädler Anr.: 2050924 Snr: 748225

Tasks allocation:

XX

Table List of chosen variables

# Task 1

## Features

xxx

## Parameter Tuning

xxx

## Method

xx

## Discussion of the results

Experiments run and performance of the solution (confusion matrix, accuracy etc.)

Figure Distributions of all the variables after multiple imputation

# Task 2

## Features used

xxx

## Parameter tuning

xxx

## description of the method / system

xx

## discussion of the experiments run and performance of the solution (confusion matrix, accuracy etc.)

# References and / or appendices

<https://www.machinecurve.com/index.php/2020/02/18/how-to-use-k-fold-cross-validation-with-keras/>

<https://machinelearningmastery.com/evaluate-performance-deep-learning-models-keras/>

<https://machinelearningmastery.com/how-to-develop-a-convolutional-neural-network-from-scratch-for-mnist-handwritten-digit-classification/>

<https://scikit-learn.org/stable/modules/cross_validation.html>

Hands-On Machine Learning Book

<https://www.kaggle.com/darkside92/simple-best-digit-recognizer-with-cnn-top-5/comments#497794>

<https://medium.com/@mjbhobe/mnist-digits-classification-with-keras-ed6c2374bd0e>

<https://www.codementor.io/@mgalarny/making-your-first-machine-learning-classifier-in-scikit-learn-python-db7d7iqdh>

<https://thedatafrog.com/en/articles/handwritten-digit-recognition-scikit-learn/>

<https://hub.packtpub.com/how-to-classify-digits-using-keras-and-tensorflow/>