ITMAL GROUP 47

Individual contributions

Contribution \Name	Søren	Ali	Jonas	Kasper
training-test set & preprocessing				
Model selection				
Optimization				
Hyperparameter tuning				
Performance metric				
Poster Setup				

Individual comments

Søren

The Credit Card Fraud Detection proved to be a fun project, by working with a dataset that has such a high diversity between frauds and valid transactions. I worked primarily with the train-test splitting of the dataset and the preprocessing to reduce the workload and increase the efficiency.

Kasper

Trying to create a machine learning model capable of detecting credit card frauds has been very interesting, and difficult at times. I mainly worked with testing the models and visualizing the performance of the different models, as well as putting it together on the poster with my publisher skills. The project has been very educational as we also changed some parameters in the respective models after testing and acknowledged that not all model could be tested the same way. Overall a very good project which relates very well to solving real world problems.

Ali

The subject Credit Card Fraud Detection was an interesting investigation. With the use of Machine Learning we were able to create a very reliable predictor for when a credit fraud scenario occurs. My contribution regarded the model selection. Three different models were used; SGDClassifier because of experience from the lectures, LogisticRegression because it is known for being good at if/else scenarios and at last MLPClassifier because neural networks classifier is generally very superior.

Jonas

Working with the credit card fraud detection project has been an educational process. My focus was mostly on optimizing the hyperparameters of the different models using grid- and randomizeSearch, to ensure the highest quality, and highest amounts of frauds detected.