Final Project Proposal

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Due: May 24, 2021

1 Project Objective:

The objective of this project will be to evaluate readily available benchmark data with various machine learning classification algorithms. Furthermore, I will compare each method's performance with respect to the other algorithms used. The goal of my final project will be to reinforce course theory by application onto a real data set.

2 Machine Learning Algorithms to be Used:

- Feed-Forward Neural Network (FFNN)
- Support Vector Machine (SVM)
- K-Nearest Neighbors (K-NN)

3 Source of Data

The readily available benchmark data will be obtained from the UC Irvine machine learning repository. This website contains an abundance of classification data sets which could be utilized for the project.

4 Performed Analysis and Simulation

Mainly simulation results will be shown in this section. The main graphics will be the respective learning algorithm plots with their associated errors and/or classification accuracies. Also, a performance table will be included in the report which will show how the different methods compare with one another.