

Machine Learning Project

Option A - Spam Classification

Build a spam-detecting machine learning classifier and test its accuracy on a dataset.

Option B - MNIST Handwritten Digit Recognition

Use the perceptron or other machine learning algorithm to do the handwritten digit recognition and test your classifier on the MNIST dataset.

Option C - Face Recognition

Collect selfies of 20 different persons with each person providing 4 different selfies taken in different poses. Use KNN to do face recognition on these selfies and show the accuracy.

Option D - Comparison of Linear Classifiers

Implement the linear classifiers that we learned in the class, eg. Perceptron, Naive Bayes, Logistic Regression, SVM. Test them on different dataset and make a comparison between the different linear classifiers in your report.