Ally Nicolella

4/1/2020

CS4342 Assignment 1

Training and Testing Accuracies

n trainingAccuracy testingAccuracy

400 0.7195 0.7035010940919038

800 0.75 0.7221006564551422

1200 0. 7505 0.7221006564551422

1600 0.761 0.7314004376367614

2000 0.7575 0.7270240700218819

As shown in the graph above, the machine’s training and testing accuracies generally increase as the sample size increases. The training accuracy is always higher than the testing accuracy, potentially due to overfitting to the training set or not having a large enough training set. However, the neither accuracy appears to change drastically between sample sizes of 400 and 2000. Both accuracies may be further improved by drastically increasing the sample sizes of the training set and improving the model to prevent overfitting.

Visualizing Learned Features

A picture containing black

Description automatically generated