

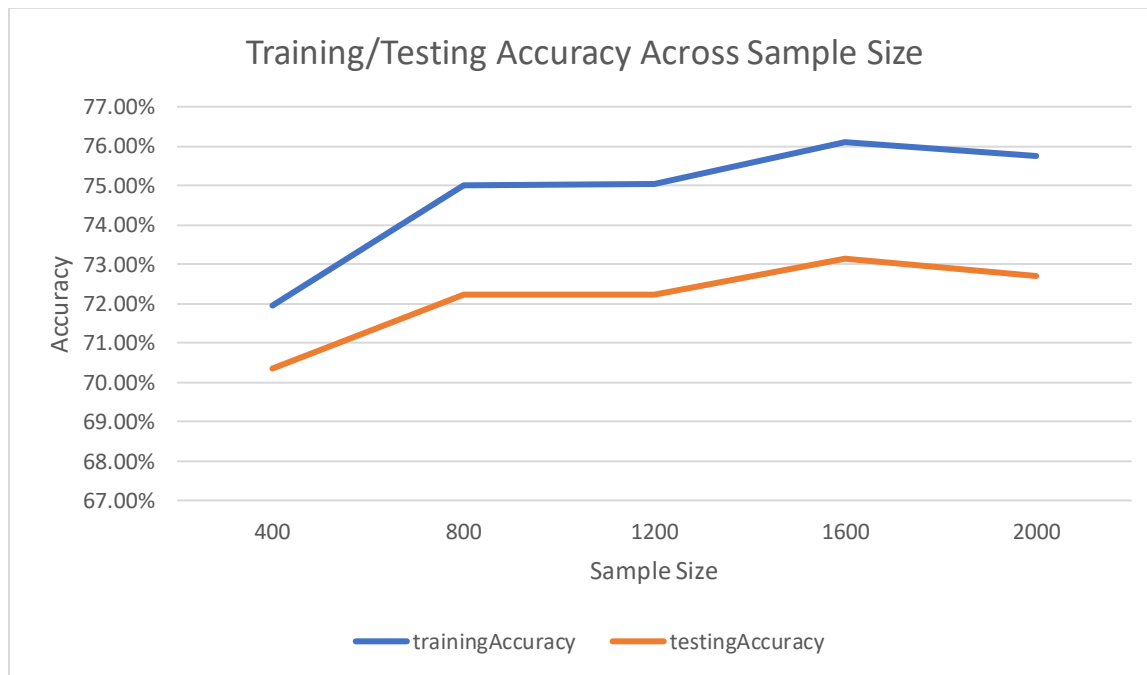
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CS4342 Assignment 1

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

