CSE 587 PA1

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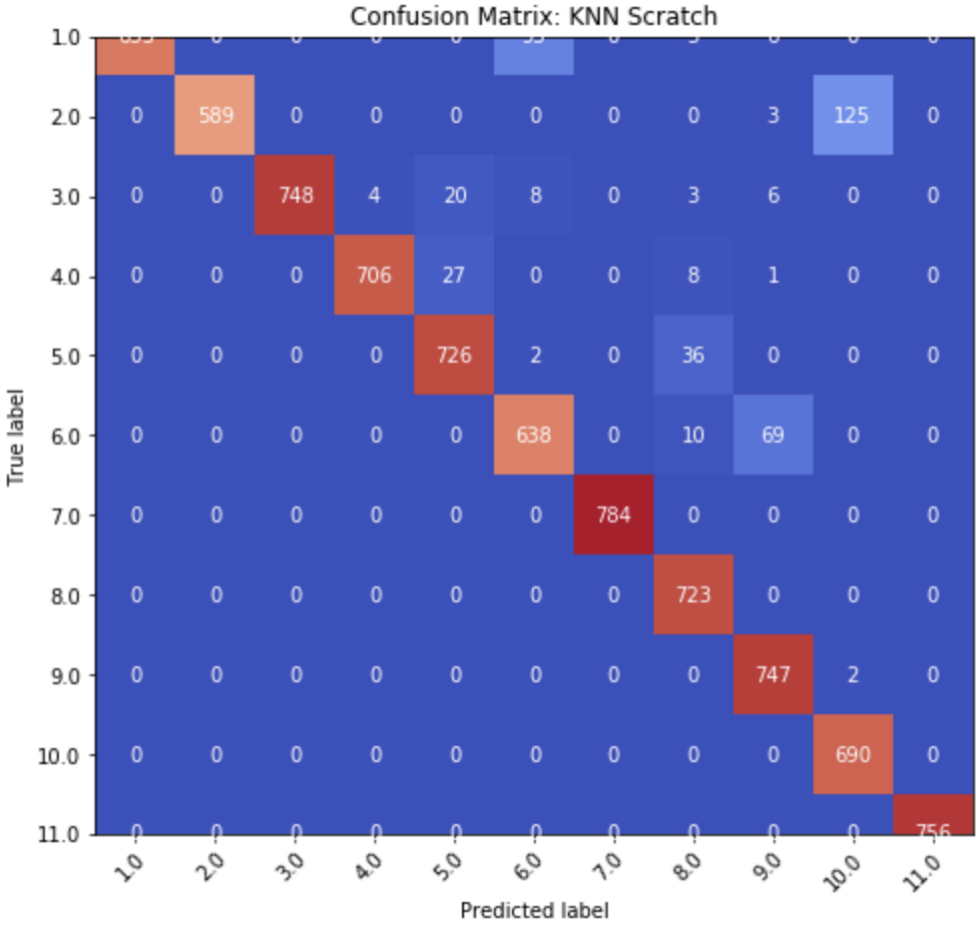
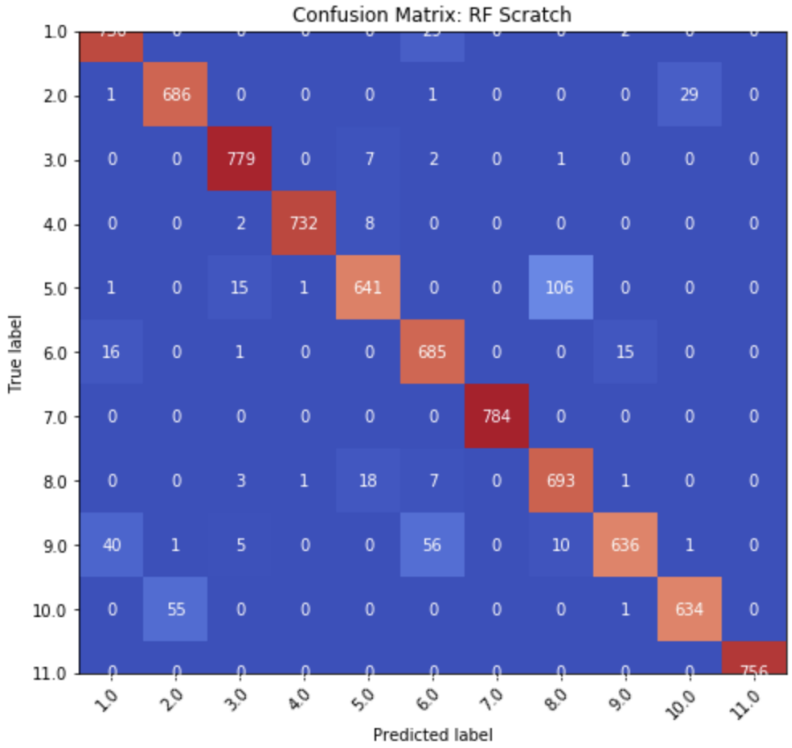
Plots for Confusion Matrices:

KNN Implementation from Scratch (K=7)

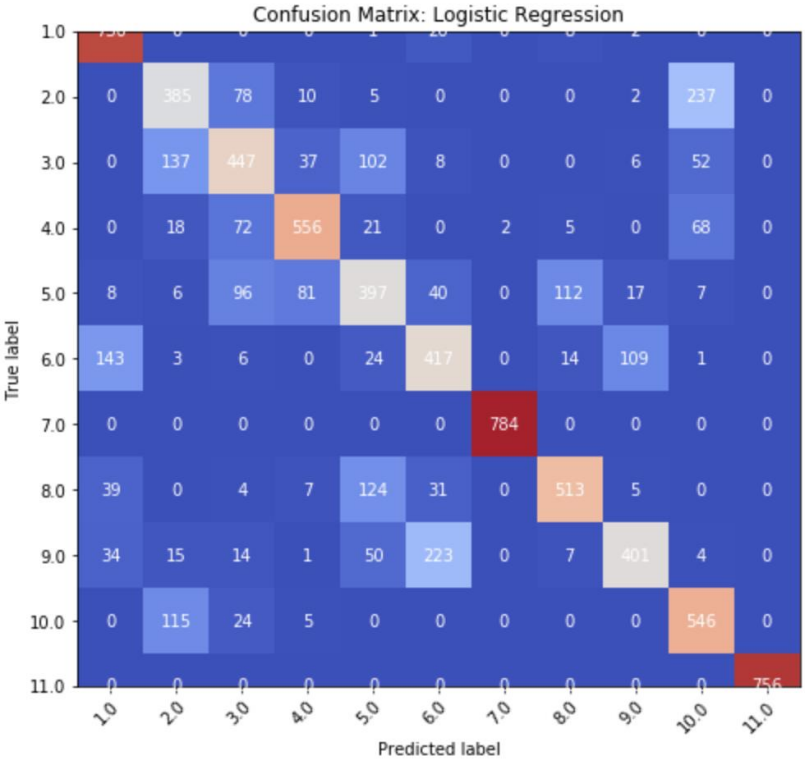


RANDOM FOREST Implementation from Scratch

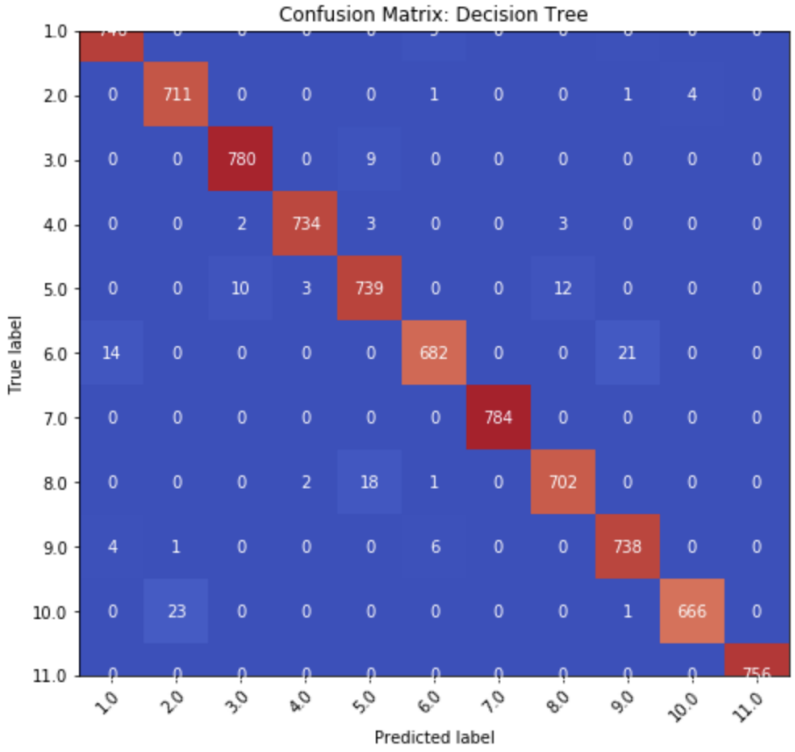


SUPERVISED LEARNING ALGORITHMS

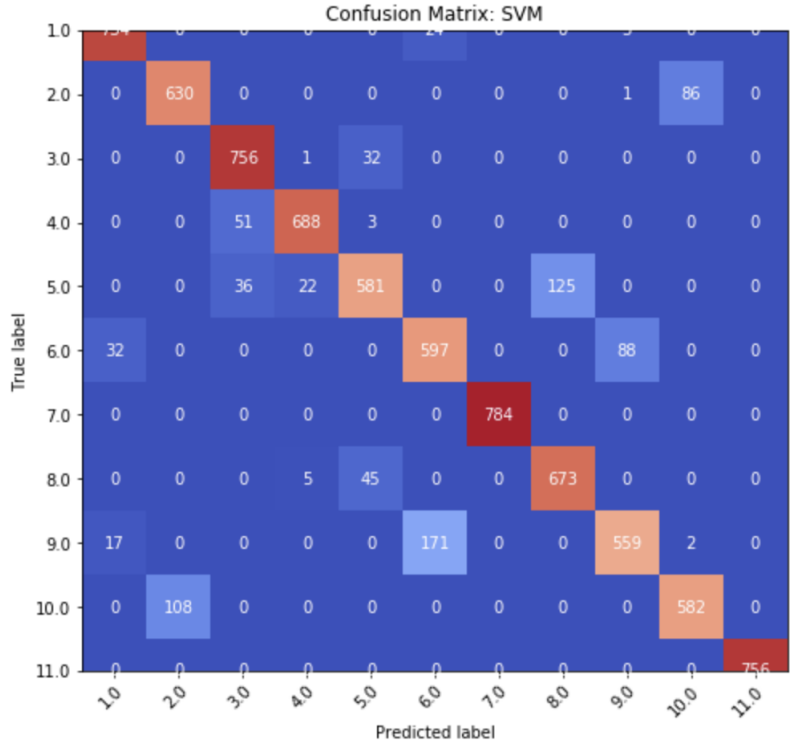
1. LOGISTIC REGRESSION:



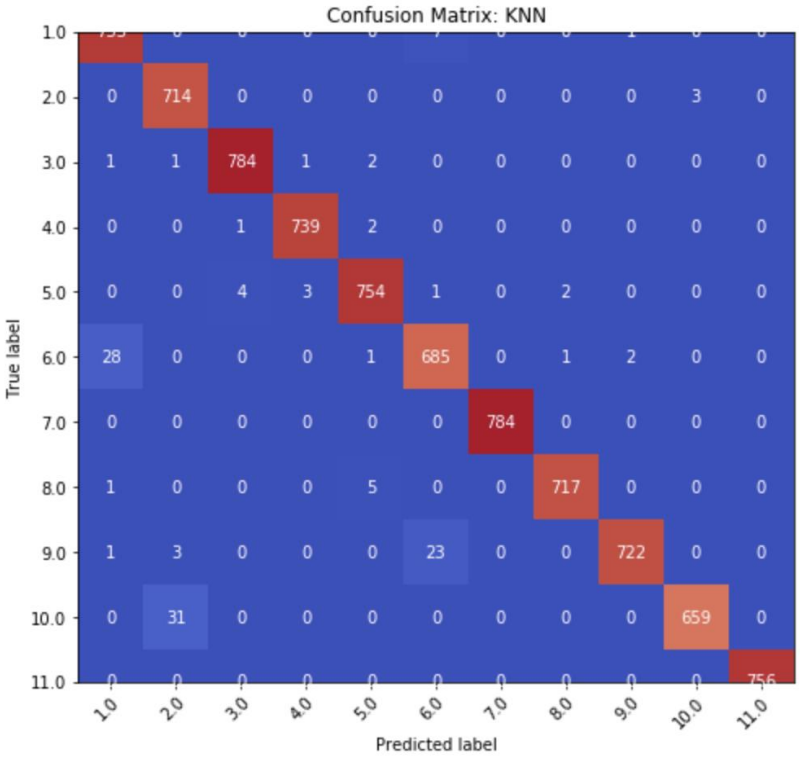
2. DECISION TREE:



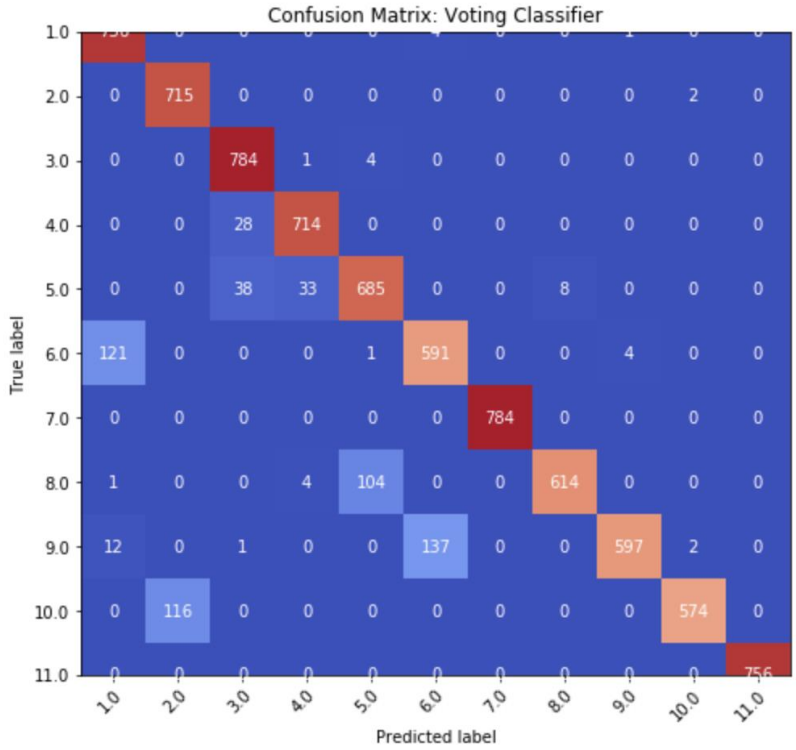
3. SVM:



4. KNN:



VOTING CLASSIFIER:



GRID SEARCH

1. DECISION TREE CLASSIFIER:

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Best Hyper Parameter: {'max_features': 'sqrt', 'min_samples_split': 2}
Accuracy for Best Hyperparamter: 0.97998046875
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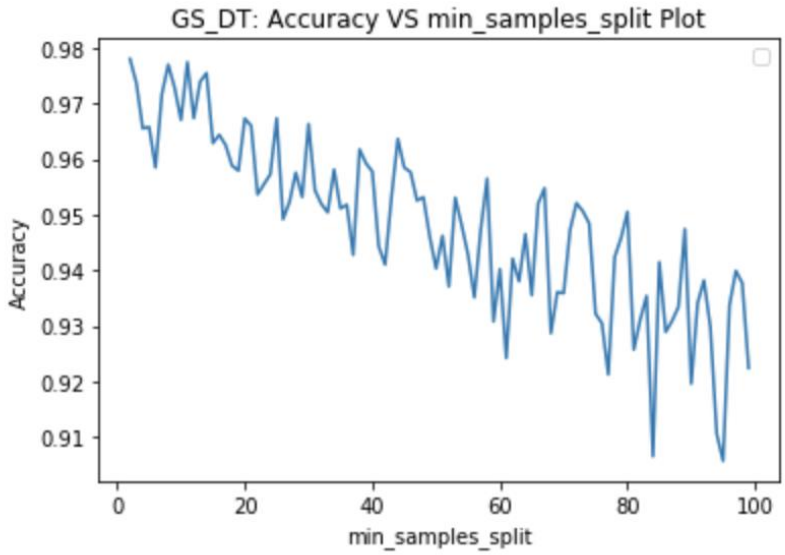
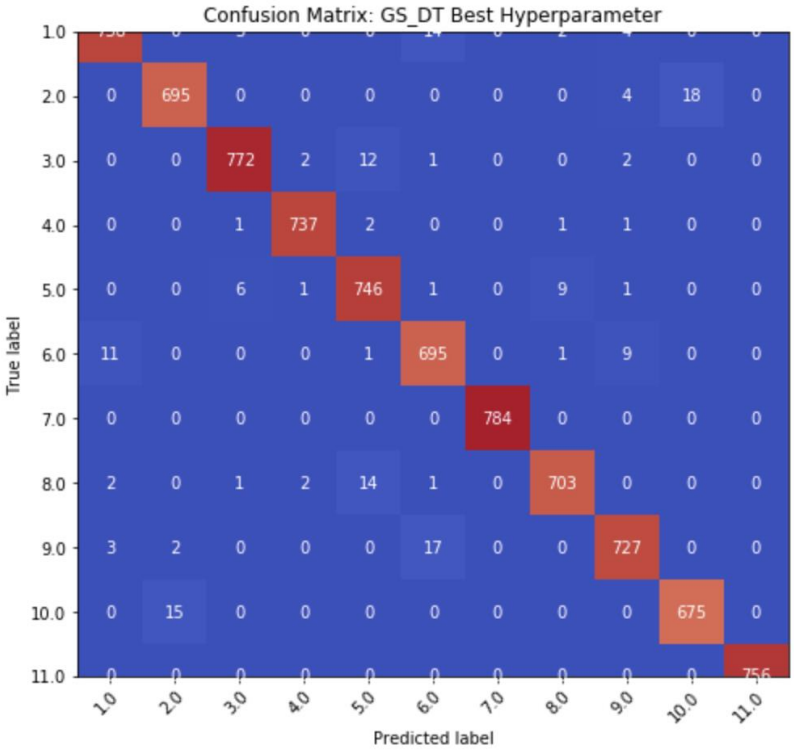
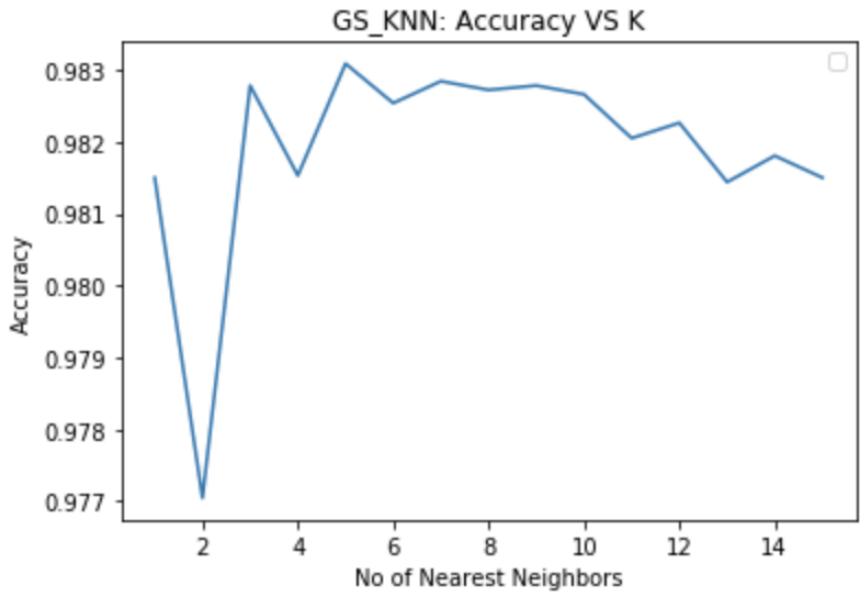


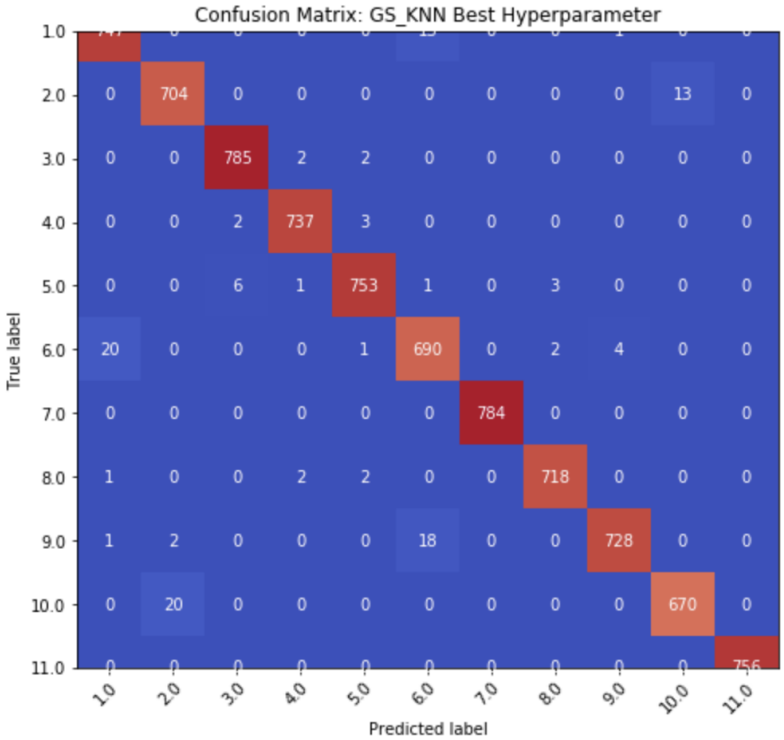


2. KNN:

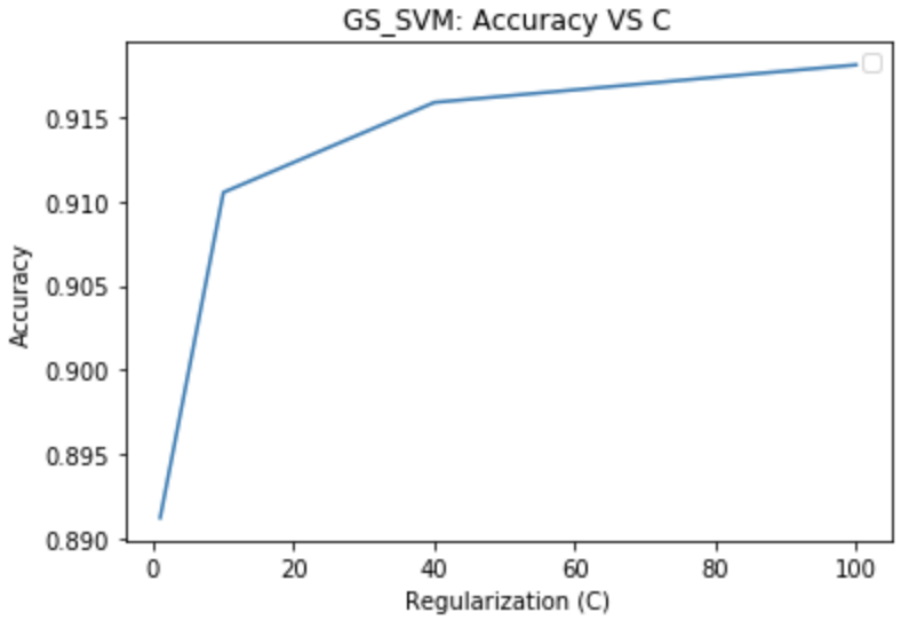
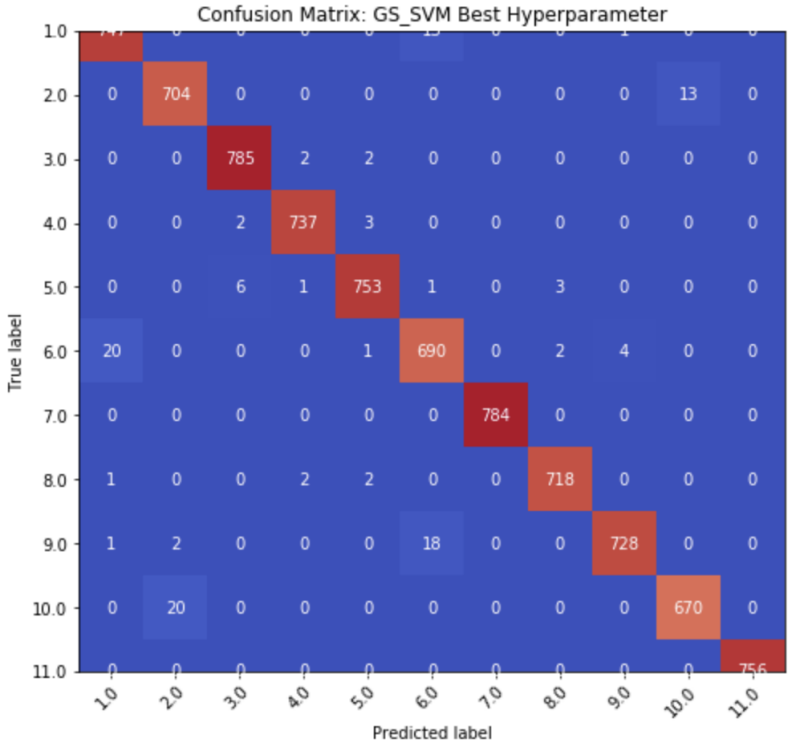
Best Hyper Parameter: {'n_neighbors': 5}

Accuracy for Best Hyperparamter: 0.9853515625





3. SVM:

Best Hyper Parameters: {'C': 100, 'kernel': 'linear'}

Accuracy for Best Hyperparamter: 0.9168701171875