Artificial Intelligence & Machine Learning Assignment Report
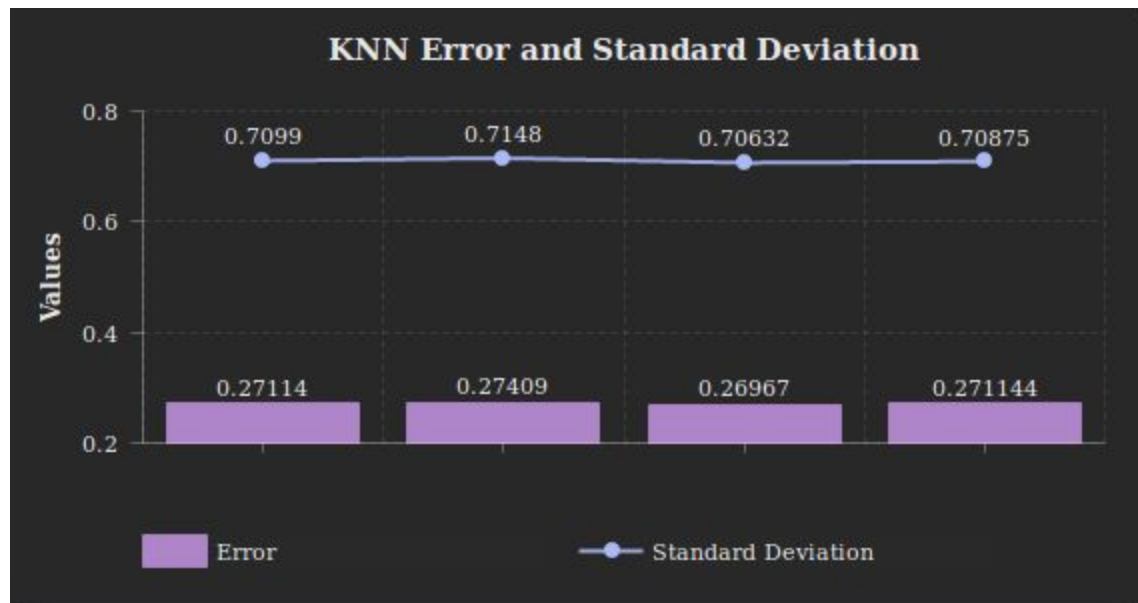
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Experimental Section:

For the given data, the best k found using 3-fold method is 22.

The standard deviation for values of k ranging from 20-23 are illustrated in the graph.

Results:

For a value of k=22, the accuracies are found to be as:

Accuracy of testing data 1 on k-neighbours classification is 97.373358349 %

Accuracy of testing data 2 on k-neighbours classification is 96.7596390484 %

Accuracy of testing data 1 on weighted k-neighbours classification is 96.5853658537 %

Accuracy of testing data 1 on weighted k-neighbours classification is 96.6263330599 %