INF 2B
LEARNING
Task 3 – Bayes classification with Gaussian distributions
REPORT
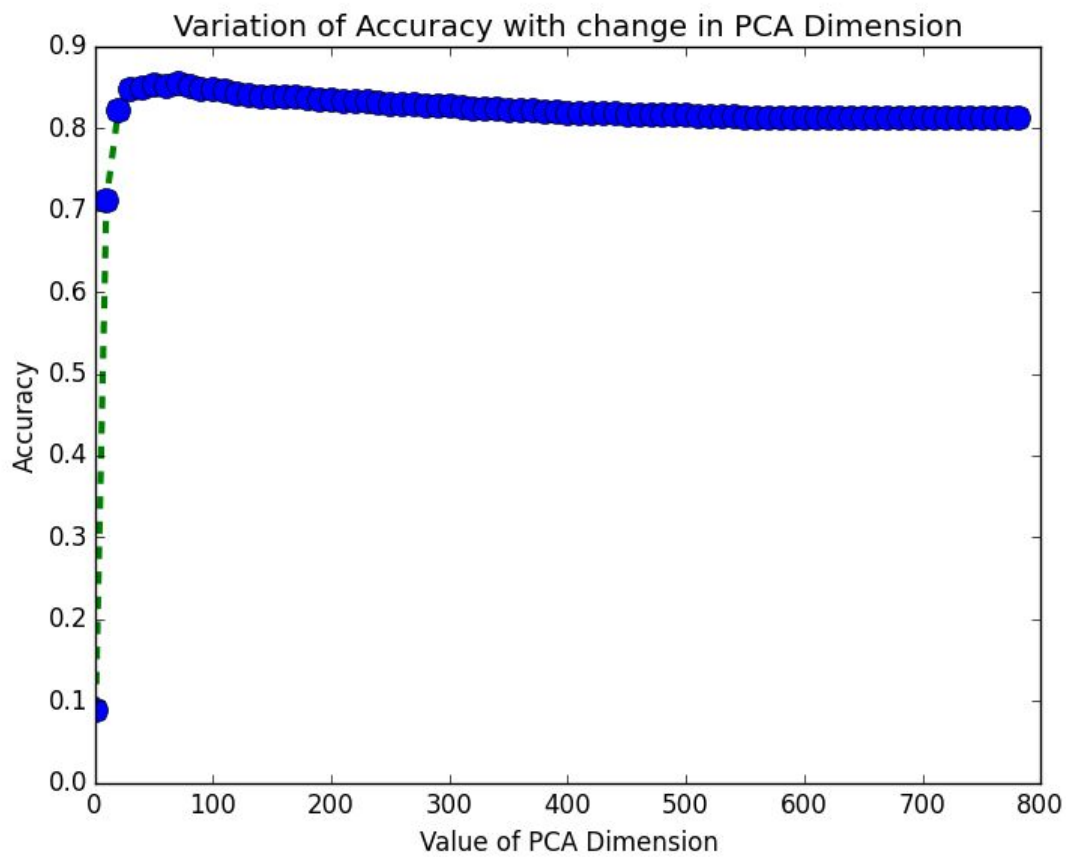
S1674417

Task 3.2
Time elapsed is : 1.91709208488

N	Nerrs	Accuracy
7800	1143	0.853461538462

Task 3.3

Variation of Accuracy with change in PCA Dimension

The decrease in PCA dimensions doesn't affect accuracy to a great extent. Therefore we can reduce the dimensions without adversely affecting the accuracy. This helps reduce the amount of computation time required.

The K-means clustering algorithm is used to find groups which have not been explicitly labeled in the data. Using K means becomes a great solution for pre-clustering, reducing the space into disjoint smaller sub-spaces where other clustering algorithms can be applied.

When used, there would be an ideal number of clusters that would result in the highest amount of accuracy.