

Question 1(a): MNIST test data projected onto 30 dimensions



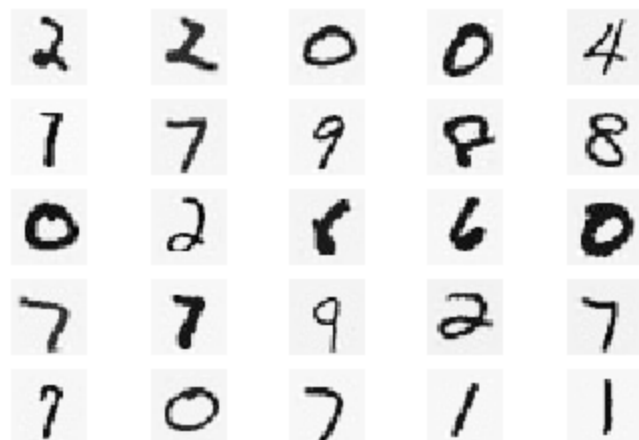
Question 1(b): MNIST test data projected onto 3 dimensions



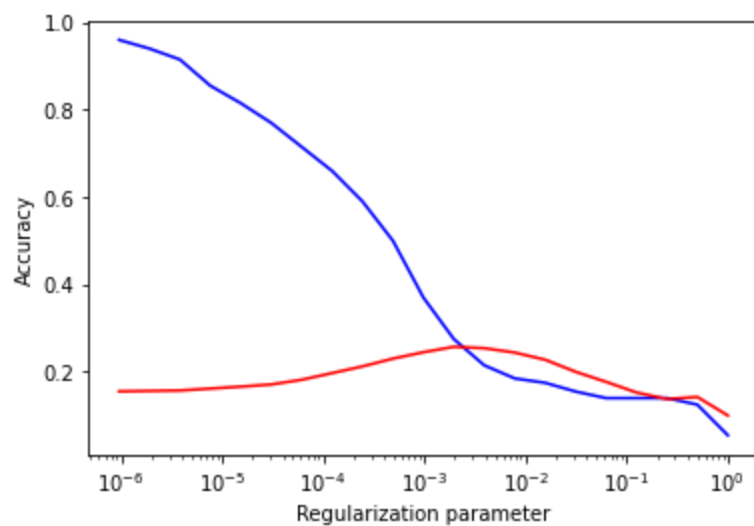
Question 1(c): MNIST test data projected onto 300 dimensions



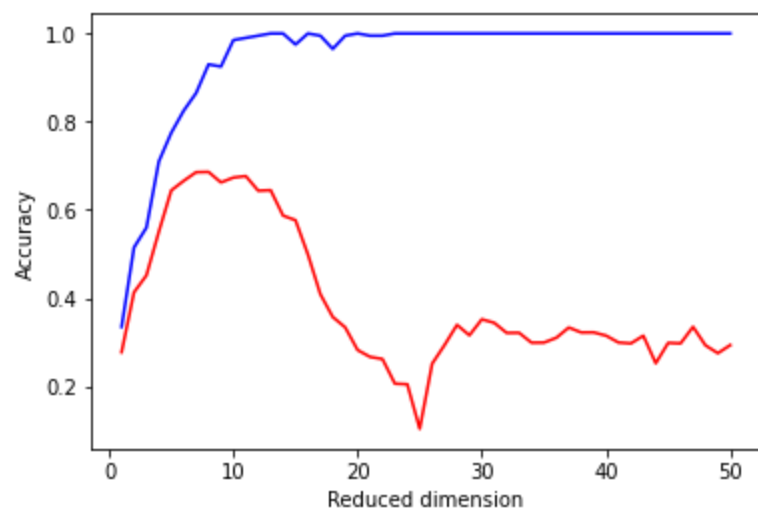
Question 1(f): MNIST test data projected onto 100 dimensions(mine)



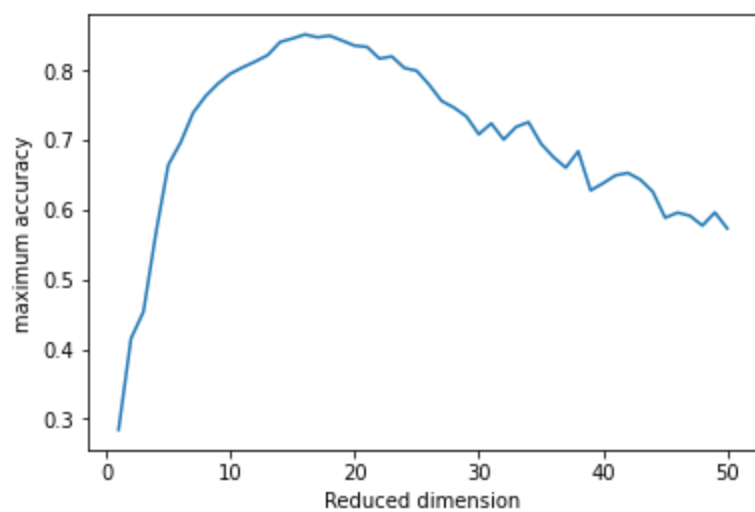
Question 2(b): Training and Validation Accuracy for Regularized QDA



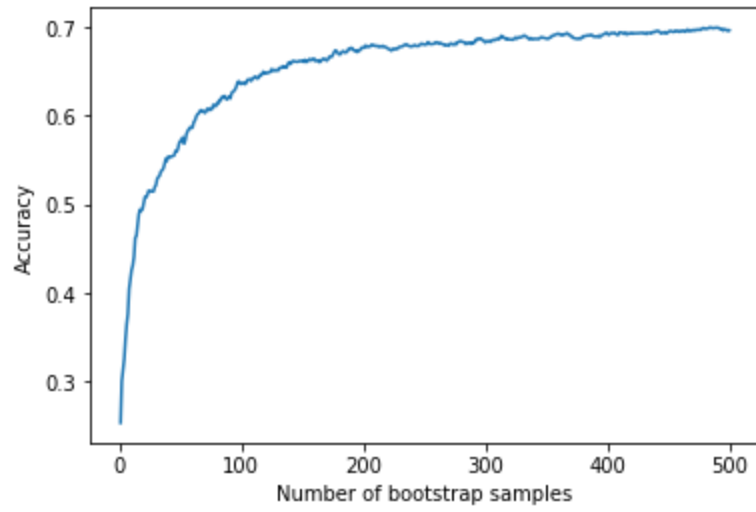
Question 2(d): Training and Validation Accuracy for PCA + QDA



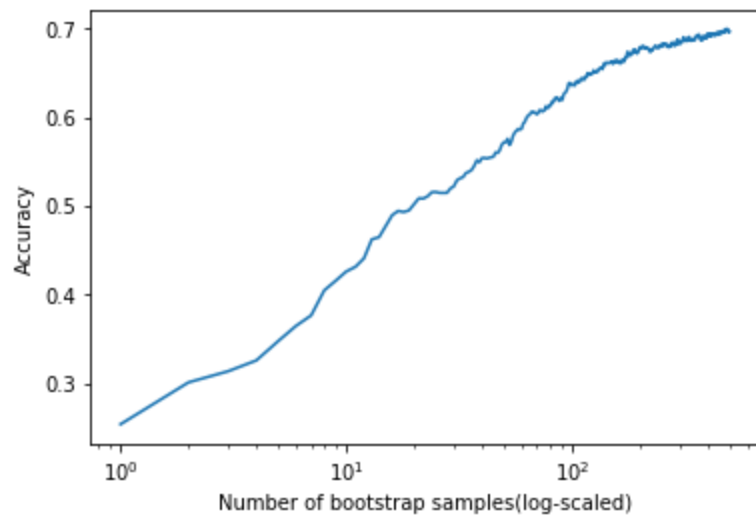
Question 2(f): Maximum validation accuracy for QDA



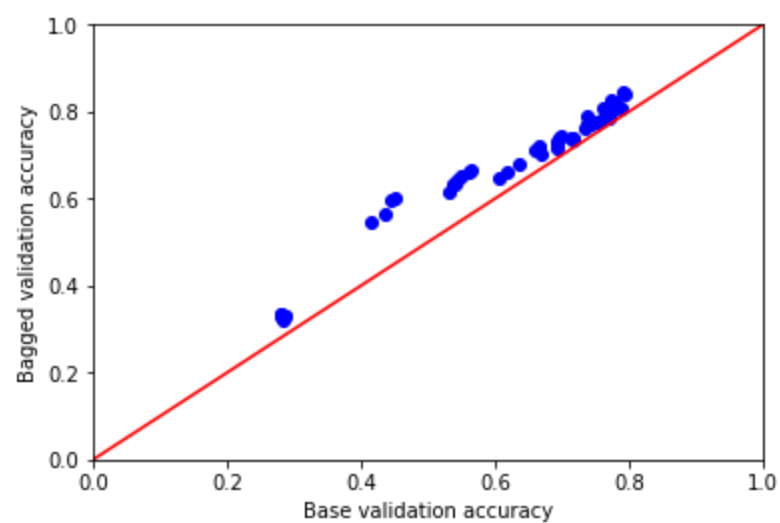
Question 3(c): Validation accuracy



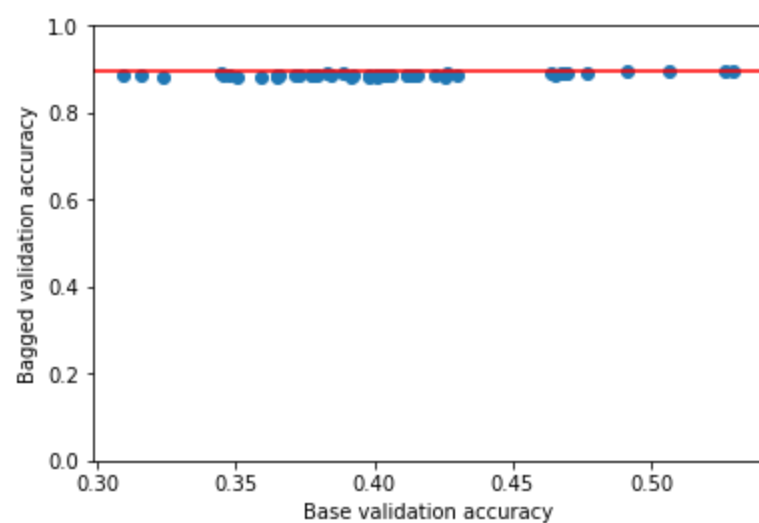
Question 3(c): Validation accuracy (log scale)



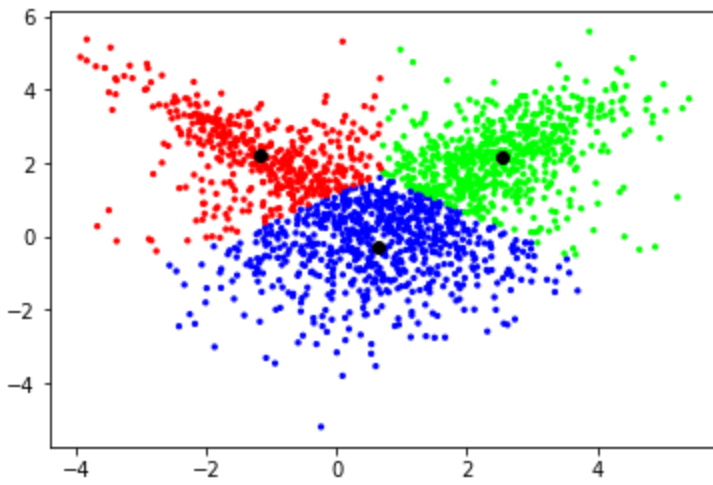
Question 3(g): Bagged v.s. base validation accuracy.



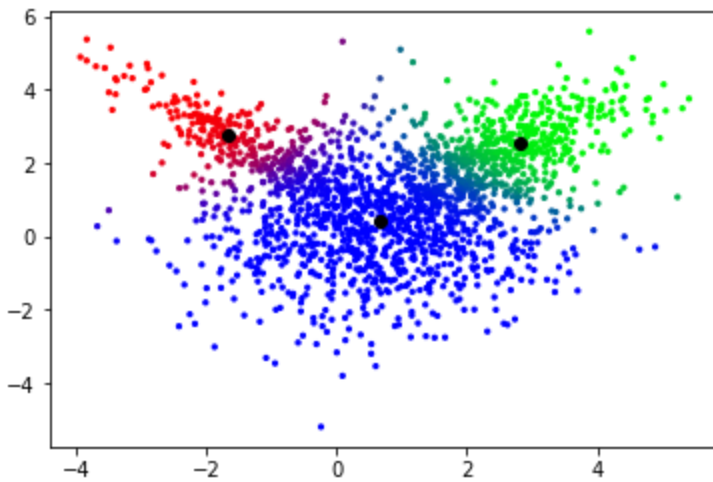
Question 3(h): Bagged v.s. base validation accuracy.



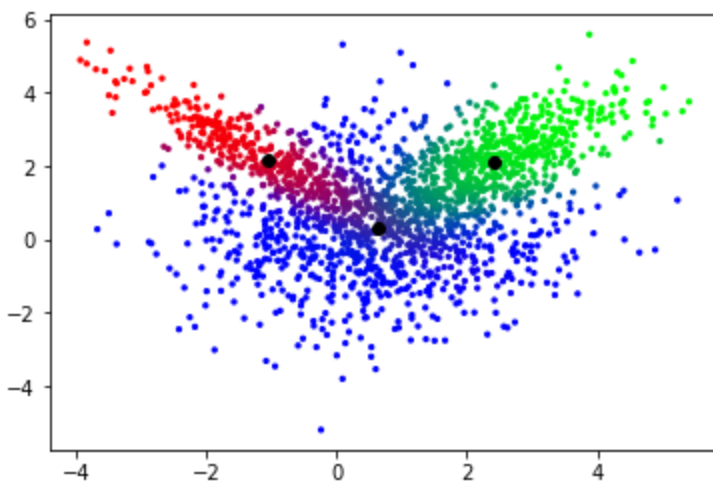
Question 4(b): K means.



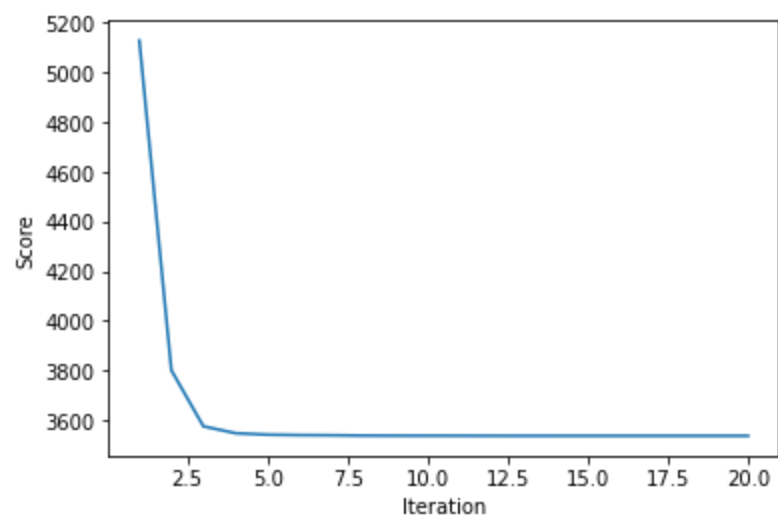
Question 4(c): Gaussian mixture model(spherical)



Question 4(d): Gaussian mixture model(full)



Question 4(e): score v.s. iteration (K means)



Question 4(e): Data clustered by K means

