

Lab 03 Part 02

Logistic Regression:

Training Accuracy Score: 96.6%

Test Accuracy Score for this model :

LDA:

Training Accuracy Score: 97.2%

Test Accuracy Score for this model : 97.4%

KNN where K=1:

Training Accuracy Score: 100%

Test Accuracy Score for this model : 95.7%

KNN where K=5:

Training Accuracy Score: 97.5%

Test Accuracy Score for this model : 96.8%

KNN where K=50:

Training Accuracy Score: 96.7%

Test Accuracy Score for this model : 96.7%

KNN where K=100:

Training Accuracy Score: 96.7%

Test Accuracy Score for this model : 96.7%

QDA:

Training Accuracy Score: 97.2%

Test Accuracy Score for this model : 97.5%

(h) : Think strategies to improve the test accuracy?

1. Changing the predictors and comparing the accuracy among those models.
2. Averaging various models after their implementation.
3. Using cross validation
4. Using Bagging and boosting.