Logistic regression:

Tuned parameters = loss=**'log'**,penalty = **'l1'** ,n\_iter = 30,alpha = 0.006

Validation Data Set:

Accuracy : 47.500000

precision recall f1-score support

0 0.47 0.40 0.43 20

1 0.48 0.55 0.51 20

avg / total 0.47 0.47 0.47 40

Test Data Set:

Accuracy: 25.000000%

Linear SVM:

Tuned Parameters : C = 5

Validation Data Set:

Accuracy = 45.000000

precision recall f1-score support

0 0.45 0.45 0.45 20

1 0.45 0.45 0.45 20

avg / total 0.45 0.45 0.45 40

Test Data Set: 32.142857

SVM with RBF kernel:

Validation Data Set:

Accuracy : 60.000000

precision recall f1-score support

0 0.62 0.50 0.56 20

1 0.58 0.70 0.64 20

avg / total 0.60 0.60 0.60 40

Test Data Set

Accuracy: 60.714286

K- Nearest Neighbors:

Validation Data Set:

Accuracy : 42.500000

precision recall f1-score support

0 0.43 0.45 0.44 20

1 0.42 0.40 0.41 20

avg / total 0.42 0.42 0.42 40

Test Data Set Accuracy:

60.714286