**Original data**

\*\*\*Support Vector Machine\*\*\*

accuracy 0.778222222222

average\_precision\_score 0.228639920666

Kappa 0.0199367901784

Precision Score 0.578947368421

\*\*\*Stochastic Gradient Descent\*\*\*

accuracy 0.775333333333

average\_precision\_score 0.22319616271

Kappa 0.00282691282379

Precision Score 0.292682926829

\*\*\*Nearest Centroid Classifier\*\*\*

accuracy 0.531333333333

average\_precision\_score 0.257792545966

Kappa 0.108053947205

Precision Score 0.274781192754

\*\*\*Decision Tree Classifier\*\*\*

accuracy 0.730333333333

average\_precision\_score 0.298149133136

Kappa 0.237159746286

Precision Score 0.400565504241

\*\*\*Multi-layer Perceptron\*\*\*

accuracy 0.766222222222

average\_precision\_score 0.231931646722

Kappa 0.045871818502

Precision Score 0.362880886427

\*\*\*K-Nearest Neighbor Classifier\*\*\*

accuracy 0.776666666667

average\_precision\_score 0.243180772449

Kappa 0.0764239994976

Precision Score 0.491909385113

**With pre-processed data**

\*\*\*Support Vector Machine\*\*\*

accuracy 0.781555555556

average\_precision\_score 0.237702489807

Kappa 0.0362414396572

Precission Score 0.809523809524

\*\*\*Stochastic Gradient Descent\*\*\*

accuracy 0.776555555556

average\_precision\_score 0.222729010806

Kappa -0.000778549200107

Precission Score 0.125

\*\*\*Nearest Centroid Classifier\*\*\*

accuracy 0.531333333333

average\_precision\_score 0.257792545966

Kappa 0.108053947205

Precision Score 0.274781192754

\*\*\*Decision Tree Classifier\*\*\*

accuracy 1.0

average\_precision\_score 1.0

Kappa 1.0

Precision Score 1.0

\*\*\*Multi-layer Perceptron\*\*\*

accuracy 0.749

average\_precision\_score 0.257281443267

Kappa 0.137198617888

Precision Score 0.385171790235

\*\*\*K-Nearest Neighbor Classifier\*\*\*

accuracy 0.778444444444

average\_precision\_score 0.245493026693

Kappa 0.0809662298875

Precision Score 0.518518518519

\*\*\*Random Forest\*\*\*

accuracy 0.828777777778

average\_precision\_score 0.402643668606

Kappa 0.318823439271

Precision Score 1.0

**ACCURACY SCORES**

SVM Accuracy: 0.78 (+/- 0.00)

SDG Accuracy: 0.57 (+/- 0.33)

NCC Accuracy: 0.54 (+/- 0.00)

DT Accuracy: 1.00 (+/- 0.00)

MLP Accuracy: 0.71 (+/- 0.17)

KNN Accuracy: 0.78 (+/- 0.00)

RF Accuracy: 0.83 (+/- 0.01)