Call:

randomForest(x = features, y = label, ntree = 500, mtry = 163, importance = TRUE, keep.forest = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 163

OOB estimate of error rate: 7.83%

Confusion matrix:

0 1 class.error

0 2421 53 0.0214228

1 182 344 0.3460076

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

best Call: error rate on test set = 8.4915%

randomForest(x = features, y = label, ntree = 500, mtry = 163, classwt = c(2474, 526), importance = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 163

OOB estimate of error rate: 7.57%

Confusion matrix:

0 1 class.error

0 2421 53 0.0214228

1 174 352 0.3307985

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Call:

randomForest(x = features, y = label, ntree = 500, mtry = 163, classwt = c(526, 2474), importance = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 163

OOB estimate of error rate: 9.97%

Confusion matrix:

0 1 class.error

0 2394 80 0.0323363

1 219 307 0.4163498

=-=-=-=-=-=-=-=-=-=-=-=-=-=

Call:

randomForest(x = selected\_new\_features, y = label, ntree = 500, mtry = 33, importance = TRUE, keep.forest = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 33

OOB estimate of error rate: 13.1%

Confusion matrix:

0 1 class.error

0 2439 35 0.01414713

1 358 168 0.68060837

= = =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

for DT:

test\_error on best model:0.0919080919081

best\_depth:5

best\_sample:17

Scores = [ 0.89637953 0.9051186 0.8825 0.88610763 0.88235294]

avg\_score = 0.890491740612

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

mtry = 31 OOB error = 11%

Searching left ...

mtry = 21 OOB error = 11.8%

-0.07272727 0.01

Searching right ...

mtry = 46 OOB error = 10.53%

0.04242424 0.01

mtry = 69 OOB error = 9.67%

0.08227848 0.01

mtry = 103 OOB error = 8.47%

0.1241379 0.01

mtry = 154 OOB error = 8.6%

-0.01574803 0.01

====-=-=-=-=-=-=-=-=-=-=

Call:

randomForest(x = features, y = label, ntree = 500, mtry = 163, importance = TRUE, keep.forest = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 163

OOB estimate of error rate: 7.6%

Confusion matrix:

0 1 class.error

0 2438 36 0.01455133

1 192 334 0.36501901