Sample weigth(ratio)

0 1

3293 707

Call:

randomForest(x = features, y = label, ntree = 500, mtry = 373, importance = TRUE, keep.forest = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 373

OOB estimate of error rate: 7.43%

Confusion matrix:

0 1 class.error

0 2432 42 0.01697656

1. 181 345 0.34410646

===========================

Call:

randomForest(x = features, y = label, ntree = 500, mtry = 373, classwt = c(3293, 707), importance = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 373

OOB estimate of error rate: 7.4%

Confusion matrix:

0 1 class.error

0 2439 35 0.01414713

1. 187 339 0.35551331

Call:

randomForest(x = features, y = label, ntree = 200, mtry = 373, classwt = c(3293, 707), importance = TRUE)

Type of random forest: classification

Number of trees: 200

No. of variables tried at each split: 373

OOB estimate of error rate: 7.97%

Confusion matrix:

0 1 class.error

0 2423 51 0.02061439

1 188 338 0.35741445

Call:

randomForest(x = features, y = label, ntree = 1000, mtry = 373, classwt = c(3293, 707), importance = TRUE)

Type of random forest: classification

Number of trees: 1000

No. of variables tried at each split: 373

OOB estimate of error rate: 7.43%

Confusion matrix:

0 1 class.error

0 2434 40 0.01616815

1 183 343 0.34790875

=== = == ======

Call:

randomForest(x = features, y = label, ntree = 500, mtry = 473, classwt = c(3293, 707), importance = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 473

OOB estimate of error rate: 7.5%

Confusion matrix:

0 1 class.error

0 2429 45 0.01818917

1 180 346 0.34220532

======

Call:

randomForest(x = features, y = label, ntree = 500, mtry = 473, classwt = c(3293, 707), importance = TRUE)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 473

OOB estimate of error rate: 7.5%

Confusion matrix:

0 1 class.error

0 2429 45 0.01818917

1 180 346 0.34220532

======

error = 0.086913 (random forest)

====

=====

======

decision tree:

Scores = [ 0.9051186 0.90387016 0.9 0.87859825 0.87108886]

avg\_score = 0.891735174586

best\_depth:5

best\_leaf\_samples:17