```
library(randomForest)
#train_tf_idf = read.csv("/Users/ouyamei/Documents/GitHub/kaggle-crisis/data/kaggle train tf idf.csv")
train wc = read.csv("/Users/ouyamei/Documents/GitHub/kaggle-crisis/data/kaggle train wc.csv"
#test wc = read.csv("/Users/ouyamei/Documents/GitHub/kaggle-crisis/data/kaggle test wc.csv")
features = train wc[0:3000,c(-1,-502)]
label = as.factor(train_wc$Predict[0:3000])
features v = train wc[3000:4000,c(-1,-502)]
label_v = as.factor(train_wc$Predict[3000:4000])
bestmtry <- tuneRF(features,label, ntreeTry=100,</pre>
     stepFactor=1.5,improve=0.01, trace=TRUE, plot=TRUE, dobest=FALSE)
rf <- randomForest(x=features, y=label, mtry=163, ntree=500,</pre>
     keep.forest=TRUE, importance=TRUE)
rf2 <- randomForest(x=features, y=label, mtry=163, ntree=500, classwt=c(2474,526), importance=TRUE)
rf3 <- randomForest(x=features, y=label, mtry=163, ntree=500, classwt=c(526,2474), importance=TRUE)
rf.pr = predict(rf2,newdata=features_v)
error = mean(rf.pr!=label v)
library(Epi)
ROC(form=label_v~rf.pr, plot="ROC")
important varibles = importance(rf, type=1)
selected features = important varibles[order(important varibles,decreasing=T),]
top features = selected features[selected features>4]
# top features = selected features[:225,]
selected new features = features[,selected features>4]
bestmtry <- tuneRF(selected_new_features,label, ntreeTry=100,</pre>
     stepFactor=1.5,improve=0.01, trace=TRUE, plot=TRUE, dobest=FALSE)
rf selected features <- randomForest(x=selected new features, y=label, mtry=33, ntree=500,
    keep.forest=TRUE, importance=TRUE)
train tf idf = read.csv("/Users/ouyamei/Documents/GitHub/kaggle-crisis/data/kaggle_train_tf_idf.csv" )
train_wc = read.csv("/Users/ouyamei/Documents/GitHub/kaggle-crisis/data/kaggle_train_wc.csv")
#test wc = read.csv("/Users/ouyamei/Documents/GitHub/kagqle-crisis/data/kagqle test wc.csv")
features_tf = train_tf_idf[0:3000,c(-1,-502)]
#label tf = as.factor(train tf idf$Predict[0:3000])
features wc = train wc[0:3000,c(-1,-502)]
label = as.factor(train wc$Predict[0:3000])
features = cbind(features_tf, features_wc)
#label = cbind(label_tf,label_wc)
features_v = train_wc[3000:4000,c(-1,-502)]
label v = as.factor(train wc$Predict[3000:4000])
bestmtry <- tuneRF(features, label, ntreeTry=100,</pre>
     stepFactor=1.5,improve=0.01, trace=TRUE, plot=TRUE, dobest=FALSE)
rf <- randomForest(x=features, y=label, mtry=163, ntree=500,</pre>
    keep.forest=TRUE, importance=TRUE)
rf2 <- randomForest(x=features, y=label, mtry=163, ntree=500, classwt=c(2474,526), importance=TRUE)
rf3 <- randomForest(x=features, y=label, mtry=163, ntree=500, classwt=c(526,2474), importance=TRUE)
```