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library('ElemStatLearn')
library("klaR")
library("caret")

data(spam)

sub = sample(nrow(spam), floor(nrow(spam) * 0.9))
train = spam[sub,]
test = spam[-sub,]

xTrain = train[,-58]
yTrain = train$spam

xTest = test[,-58]
yTest = test$spam

model =
train(xTrain,yTrain,'nb',trControl=trainControl(method='cv',number=10))
prop.table(table(predict(model$finalModel,xTest)$class,yTest))
```