```
> library("klaR")
> library("caret")
> data("iris")
> index = sample(nrow(iris), floor(nrow(iris) * 0.7)) #70/30 split.
> train = iris[index,]
> test = iris[-index,]
> xTrain = train[,-5]
> yTrain = train$Species
> xTest = test[,-5]
> yTest = test$Species
```

This one line will generate a Naive Bayes model, using 10-fold cross-validation. From above, x is the attributes and y is the labels. The ‘nb’ tells the trainer to use Naive Bayes. The trainController part tells the trainer to use cross-validataion (‘cv’) with 10 folds.

```
> model = train(xTrain,yTrain,'nb',trControl=trainControl(method='cv',numbe
r=10))
> model
```

```
> table(predict(model$finalModel,xTest)$class,yTest)
```

```
> prop.table(table(predict(model$finalModel,xTest)$class,yTest))
```