Coursera - Practical Machine Learning - Course Assignment

Iñigo Fernández del Amo

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Coursera - Practical Machine Learning - Course Assignment

Executive Summary

1. Introduction

2. Data preparation

The following are the R libraries utilized for this assignment.

```r
knitr::opts_chunk$set(echo = TRUE)
library(caret) # For training models and predicting outcomes
```

```
## Loading required package: lattice
```

```
## Loading required package: ggplot2
```

```r
library(randomForest) # For applying random forests' algorithms
```

```
## randomForest 4.6-14
```

```
## Type rfNews() to see new features/changes/bug fixes.
```

```
##
## Attaching package: 'randomForest'
```

```
## The following object is masked from 'package:ggplot2':
##
##     margin
```

```r
set.seed(234332) # For reproducibility purposes
```

The training and test data sets can be downloaded directly from the Internet.

```r
trainURL <- "https://d396qusza40orc.cloudfront.net/predmachlearn/pml-training.csv"
training <- read.csv(url(trainURL), na.strings = c("NA", "", "#DIV/0!"))
training$classe <- as.factor(training$classe) # Ensure the label variable is treated as a factor
dim(training)
```

```
## [1] 19622    160
```

```r
testURL <- "https://d396qusza40orc.cloudfront.net/predmachlearn/pml-testing.csv"
testing <- read.csv(url(testURL), na.strings = c("NA", "", "#DIV/0!"))
dim(testing)
```

```
## [1]  20 160
```

For each data set a total of 160 variables are loaded, with 19622 observations for the training set and 20 observations for the test set.

Due to the large number of observations in the training data set, this can be further split for cross-validation purposes (using a 70/30 ratio).

```
inTrain <- createDataPartition(training$classe, p = 0.7, list = FALSE)
trainSet <- training[inTrain, ]
valSet <- training[-inTrain, ]
```

A brief exploration to the training data set shows that many of those variables have a large amount of NA values, while some others have very small variances. Besides, the first seven columns are identifiers with no relevance as predictors. All the variables can therefore be removed.

```
allNA <- sapply(trainSet, function(x) mean(is.na(x))) > 0.95 # remove vars with NAs > 95%
trainSet <- trainSet[, allNA == FALSE]
valSet <- valSet[, allNA == FALSE]
nzv <- nearZeroVar(trainSet) # remove variables with near-zero variance
trainSet <- trainSet[, -nzv]
valSet <- valSet[, -nzv]
idVARS <- c(1:7)
trainSet <- trainSet[, -idVARS]
valSet <- valSet[, -idVARS]
dim(trainSet)
```

```
## [1] 13737    52
```

```
dim(valSet)
```

```
## [1] 5885    52
```

These data tidying operations leave a total of 52 variables for classe prediction.

3. Prediction modelling with ML algorithms

Due to the number of variables included in the study, there are several methods that can be applied to obtain predictions on the outcome "classe": (a) Naive Bayes, (b) Linear discriminant analysism, (c) Decision trees, (d) Random forests and (e) Stochastic Gradient Boosting (generalized boosted models).

```
# Functions to train each ML algorithm applied sequentially
# Training control parameters
control <- trainControl(    preProcOptions = list(thresh = 0.8),
                        allowParallel=T,
                        savePredictions=T,
                        method = "cv",
                        number = 10)
# Training function for trainSet
mlTraining <- function (mlMethod) {
  modelFit <- train(classe ~ ., data = trainSet, method = mlMethod, trControl = control)
  return(modelFit)
}
# Confusion matrix for valSet
mlPredicting <- function(modelFit) {
  modelPrediction <- predict(modelFit, newdata = valSet)
  modelCM <- confusionMatrix(modelPrediction, valSet$classe)
  modelCM$methodName <- modelFit$modelInfo$label
  return(modelCM)
}
# Accuracy obtained in valSet for each algorithm applied
mlEvaluating <- function(modelResult) {
```

```r
  return(data.frame(Method = modelResult$methodName, Accuracy = modelResult$overall["Accuracy"]))
}
# List ML algorithms to be applied, train them with trainSet and evaluate their accuracies with valSet
mlMethods <- c("nb", "lda", "rpart", "gbm", "rf")
mlModels <- lapply(mlMethods, mlTraining)
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1313

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1314

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1319

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1320

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1321

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1325

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1327

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1333
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1334

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1295

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1297

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1301

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1122
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1122

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1123
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1131

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1250

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 1350

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 31

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 1092

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1093

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1094

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1095

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1096

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1097

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1098

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1099

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1105
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1122

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1126
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1231
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 1337

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## observation 2

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## observation 4
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

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## observation 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 9

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 12

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 14

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 15

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 16

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 1080

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1081

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1082

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1083

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1084

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1085

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1086

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1087
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1088

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1089

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1090

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1091

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1092

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1093

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1094

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1095

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1096

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1097

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1098

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1099

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1108
```

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1122

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1129
```

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1150
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1171
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1213
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1255
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1256

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1339
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1340

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1341

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1342

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## observation 1349

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1350

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1351

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1360
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1361

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

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## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 1062

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1063

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1066

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1067

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1068

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1069

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1070

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1071
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1092
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1113
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1370

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1333
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1170

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1175

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1176

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1177
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1178

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1179

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1180

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1181

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1197

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1198
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1199

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1202

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1240
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1261
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1303
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1304

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1324
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1325

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1326

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1340

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1344

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1345
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1346

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1350

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1366
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1367

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1372

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1373

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1374

## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1         1.6094             nan     0.1000    0.1152
##      2         1.5366             nan     0.1000    0.0791
##      3         1.4875             nan     0.1000    0.0598
##      4         1.4498             nan     0.1000    0.0476
##      5         1.4204             nan     0.1000    0.0448
##      6         1.3916             nan     0.1000    0.0362
##      7         1.3668             nan     0.1000    0.0388
##      8         1.3418             nan     0.1000    0.0324
##      9         1.3199             nan     0.1000    0.0315
##     10         1.2995             nan     0.1000    0.0286
##     20         1.1512             nan     0.1000    0.0200
##     40         0.9754             nan     0.1000    0.0099
##     60         0.8659             nan     0.1000    0.0054
##     80         0.7823             nan     0.1000    0.0054
##    100         0.7130             nan     0.1000    0.0036
##    120         0.6601             nan     0.1000    0.0028
##    140         0.6150             nan     0.1000    0.0032
##    150         0.5945             nan     0.1000    0.0023
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1         1.6094             nan     0.1000    0.1710
##      2         1.5017             nan     0.1000    0.1159
##      3         1.4305             nan     0.1000    0.0969
##      4         1.3696             nan     0.1000    0.0740
##      5         1.3223             nan     0.1000    0.0696
##      6         1.2781             nan     0.1000    0.0568
##      7         1.2413             nan     0.1000    0.0605
##      8         1.2036             nan     0.1000    0.0586
##      9         1.1677             nan     0.1000    0.0412
##     10         1.1416             nan     0.1000    0.0441
##     20         0.9392             nan     0.1000    0.0212
##     40         0.7162             nan     0.1000    0.0122
##     60         0.5794             nan     0.1000    0.0084
```

```
##     80        0.4858          nan       0.1000     0.0060
##    100        0.4151          nan       0.1000     0.0039
##    120        0.3639          nan       0.1000     0.0025
##    140        0.3256          nan       0.1000     0.0029
##    150        0.3050          nan       0.1000     0.0019
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1        1.6094          nan       0.1000     0.2134
##      2        1.4752          nan       0.1000     0.1519
##      3        1.3823          nan       0.1000     0.1179
##      4        1.3103          nan       0.1000     0.1050
##      5        1.2460          nan       0.1000     0.0772
##      6        1.1960          nan       0.1000     0.0719
##      7        1.1513          nan       0.1000     0.0641
##      8        1.1111          nan       0.1000     0.0712
##      9        1.0679          nan       0.1000     0.0525
##     10        1.0352          nan       0.1000     0.0547
##     20        0.7908          nan       0.1000     0.0265
##     40        0.5504          nan       0.1000     0.0098
##     60        0.4218          nan       0.1000     0.0084
##     80        0.3372          nan       0.1000     0.0037
##    100        0.2805          nan       0.1000     0.0039
##    120        0.2342          nan       0.1000     0.0017
##    140        0.1996          nan       0.1000     0.0019
##    150        0.1846          nan       0.1000     0.0016
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1        1.6094          nan       0.1000     0.1149
##      2        1.5368          nan       0.1000     0.0752
##      3        1.4888          nan       0.1000     0.0618
##      4        1.4511          nan       0.1000     0.0516
##      5        1.4186          nan       0.1000     0.0483
##      6        1.3876          nan       0.1000     0.0370
##      7        1.3646          nan       0.1000     0.0361
##      8        1.3412          nan       0.1000     0.0314
##      9        1.3198          nan       0.1000     0.0317
##     10        1.2998          nan       0.1000     0.0308
##     20        1.1530          nan       0.1000     0.0180
##     40        0.9769          nan       0.1000     0.0086
##     60        0.8647          nan       0.1000     0.0064
##     80        0.7824          nan       0.1000     0.0047
##    100        0.7157          nan       0.1000     0.0042
##    120        0.6615          nan       0.1000     0.0023
##    140        0.6160          nan       0.1000     0.0022
##    150        0.5967          nan       0.1000     0.0018
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1        1.6094          nan       0.1000     0.1660
##      2        1.5055          nan       0.1000     0.1283
##      3        1.4276          nan       0.1000     0.0910
##      4        1.3696          nan       0.1000     0.0741
##      5        1.3221          nan       0.1000     0.0713
##      6        1.2787          nan       0.1000     0.0519
##      7        1.2442          nan       0.1000     0.0561
```

```
##        8        1.2087              nan      0.1000     0.0535
##        9        1.1754              nan      0.1000     0.0473
##       10        1.1462              nan      0.1000     0.0405
##       20        0.9414              nan      0.1000     0.0180
##       40        0.7105              nan      0.1000     0.0099
##       60        0.5701              nan      0.1000     0.0078
##       80        0.4815              nan      0.1000     0.0064
##      100        0.4150              nan      0.1000     0.0032
##      120        0.3618              nan      0.1000     0.0040
##      140        0.3174              nan      0.1000     0.0021
##      150        0.2987              nan      0.1000     0.0033
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##        1        1.6094              nan      0.1000     0.2066
##        2        1.4776              nan      0.1000     0.1466
##        3        1.3876              nan      0.1000     0.1183
##        4        1.3143              nan      0.1000     0.0897
##        5        1.2580              nan      0.1000     0.0847
##        6        1.2048              nan      0.1000     0.0701
##        7        1.1619              nan      0.1000     0.0782
##        8        1.1151              nan      0.1000     0.0577
##        9        1.0789              nan      0.1000     0.0585
##       10        1.0430              nan      0.1000     0.0469
##       20        0.7900              nan      0.1000     0.0271
##       40        0.5471              nan      0.1000     0.0166
##       60        0.4156              nan      0.1000     0.0079
##       80        0.3357              nan      0.1000     0.0050
##      100        0.2788              nan      0.1000     0.0030
##      120        0.2344              nan      0.1000     0.0036
##      140        0.1988              nan      0.1000     0.0012
##      150        0.1852              nan      0.1000     0.0011
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##        1        1.6094              nan      0.1000     0.1160
##        2        1.5367              nan      0.1000     0.0755
##        3        1.4887              nan      0.1000     0.0617
##        4        1.4506              nan      0.1000     0.0502
##        5        1.4197              nan      0.1000     0.0425
##        6        1.3921              nan      0.1000     0.0412
##        7        1.3649              nan      0.1000     0.0387
##        8        1.3409              nan      0.1000     0.0320
##        9        1.3205              nan      0.1000     0.0302
##       10        1.3017              nan      0.1000     0.0285
##       20        1.1497              nan      0.1000     0.0174
##       40        0.9785              nan      0.1000     0.0080
##       60        0.8659              nan      0.1000     0.0060
##       80        0.7824              nan      0.1000     0.0046
##      100        0.7166              nan      0.1000     0.0043
##      120        0.6632              nan      0.1000     0.0028
##      140        0.6174              nan      0.1000     0.0032
##      150        0.5962              nan      0.1000     0.0025
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##        1        1.6094              nan      0.1000     0.1659
```

```
##       2        1.5026              nan     0.1000    0.1201
##       3        1.4281              nan     0.1000    0.0941
##       4        1.3693              nan     0.1000    0.0733
##       5        1.3227              nan     0.1000    0.0626
##       6        1.2826              nan     0.1000    0.0676
##       7        1.2409              nan     0.1000    0.0606
##       8        1.2028              nan     0.1000    0.0440
##       9        1.1752              nan     0.1000    0.0501
##      10        1.1444              nan     0.1000    0.0413
##      20        0.9429              nan     0.1000    0.0223
##      40        0.7130              nan     0.1000    0.0105
##      60        0.5810              nan     0.1000    0.0061
##      80        0.4814              nan     0.1000    0.0050
##     100        0.4134              nan     0.1000    0.0040
##     120        0.3612              nan     0.1000    0.0033
##     140        0.3212              nan     0.1000    0.0038
##     150        0.3020              nan     0.1000    0.0013
##
## Iter  TrainDeviance  ValidDeviance   StepSize   Improve
##       1        1.6094              nan     0.1000    0.2104
##       2        1.4790              nan     0.1000    0.1441
##       3        1.3900              nan     0.1000    0.1186
##       4        1.3155              nan     0.1000    0.1067
##       5        1.2503              nan     0.1000    0.0811
##       6        1.1990              nan     0.1000    0.0764
##       7        1.1523              nan     0.1000    0.0673
##       8        1.1114              nan     0.1000    0.0583
##       9        1.0755              nan     0.1000    0.0549
##      10        1.0420              nan     0.1000    0.0531
##      20        0.8096              nan     0.1000    0.0301
##      40        0.5528              nan     0.1000    0.0098
##      60        0.4227              nan     0.1000    0.0078
##      80        0.3390              nan     0.1000    0.0052
##     100        0.2779              nan     0.1000    0.0031
##     120        0.2313              nan     0.1000    0.0018
##     140        0.1976              nan     0.1000    0.0024
##     150        0.1828              nan     0.1000    0.0008
##
## Iter  TrainDeviance  ValidDeviance   StepSize   Improve
##       1        1.6094              nan     0.1000    0.1127
##       2        1.5361              nan     0.1000    0.0764
##       3        1.4875              nan     0.1000    0.0610
##       4        1.4500              nan     0.1000    0.0509
##       5        1.4184              nan     0.1000    0.0397
##       6        1.3939              nan     0.1000    0.0422
##       7        1.3658              nan     0.1000    0.0341
##       8        1.3439              nan     0.1000    0.0367
##       9        1.3202              nan     0.1000    0.0313
##      10        1.3006              nan     0.1000    0.0289
##      20        1.1516              nan     0.1000    0.0184
##      40        0.9768              nan     0.1000    0.0111
##      60        0.8661              nan     0.1000    0.0070
##      80        0.7819              nan     0.1000    0.0063
##     100        0.7156              nan     0.1000    0.0038
```

```
##    120        0.6614            nan     0.1000     0.0036
##    140        0.6167            nan     0.1000     0.0026
##    150        0.5965            nan     0.1000     0.0025
##
## Iter    TrainDeviance    ValidDeviance    StepSize    Improve
##      1        1.6094            nan     0.1000     0.1688
##      2        1.5040            nan     0.1000     0.1206
##      3        1.4297            nan     0.1000     0.0949
##      4        1.3706            nan     0.1000     0.0804
##      5        1.3198            nan     0.1000     0.0626
##      6        1.2801            nan     0.1000     0.0616
##      7        1.2420            nan     0.1000     0.0643
##      8        1.2027            nan     0.1000     0.0588
##      9        1.1665            nan     0.1000     0.0436
##     10        1.1392            nan     0.1000     0.0386
##     20        0.9426            nan     0.1000     0.0235
##     40        0.7083            nan     0.1000     0.0132
##     60        0.5774            nan     0.1000     0.0075
##     80        0.4854            nan     0.1000     0.0049
##    100        0.4157            nan     0.1000     0.0032
##    120        0.3603            nan     0.1000     0.0034
##    140        0.3184            nan     0.1000     0.0024
##    150        0.3014            nan     0.1000     0.0032
##
## Iter    TrainDeviance    ValidDeviance    StepSize    Improve
##      1        1.6094            nan     0.1000     0.2062
##      2        1.4786            nan     0.1000     0.1508
##      3        1.3833            nan     0.1000     0.1151
##      4        1.3099            nan     0.1000     0.0970
##      5        1.2493            nan     0.1000     0.0785
##      6        1.2001            nan     0.1000     0.0776
##      7        1.1520            nan     0.1000     0.0714
##      8        1.1078            nan     0.1000     0.0602
##      9        1.0706            nan     0.1000     0.0542
##     10        1.0377            nan     0.1000     0.0522
##     20        0.7922            nan     0.1000     0.0203
##     40        0.5527            nan     0.1000     0.0093
##     60        0.4191            nan     0.1000     0.0101
##     80        0.3375            nan     0.1000     0.0033
##    100        0.2754            nan     0.1000     0.0047
##    120        0.2333            nan     0.1000     0.0021
##    140        0.1971            nan     0.1000     0.0018
##    150        0.1840            nan     0.1000     0.0016
##
## Iter    TrainDeviance    ValidDeviance    StepSize    Improve
##      1        1.6094            nan     0.1000     0.1136
##      2        1.5372            nan     0.1000     0.0772
##      3        1.4888            nan     0.1000     0.0601
##      4        1.4508            nan     0.1000     0.0486
##      5        1.4205            nan     0.1000     0.0413
##      6        1.3938            nan     0.1000     0.0422
##      7        1.3660            nan     0.1000     0.0352
##      8        1.3429            nan     0.1000     0.0358
##      9        1.3203            nan     0.1000     0.0312
```

```
##       10       1.3007            nan      0.1000      0.0308
##       20       1.1549            nan      0.1000      0.0204
##       40       0.9770            nan      0.1000      0.0097
##       60       0.8683            nan      0.1000      0.0053
##       80       0.7835            nan      0.1000      0.0051
##      100       0.7174            nan      0.1000      0.0037
##      120       0.6645            nan      0.1000      0.0036
##      140       0.6168            nan      0.1000      0.0025
##      150       0.5961            nan      0.1000      0.0018
##
## Iter   TrainDeviance  ValidDeviance   StepSize    Improve
##        1       1.6094            nan      0.1000      0.1677
##        2       1.5035            nan      0.1000      0.1196
##        3       1.4295            nan      0.1000      0.0939
##        4       1.3714            nan      0.1000      0.0804
##        5       1.3197            nan      0.1000      0.0637
##        6       1.2799            nan      0.1000      0.0691
##        7       1.2380            nan      0.1000      0.0546
##        8       1.2040            nan      0.1000      0.0554
##        9       1.1693            nan      0.1000      0.0452
##       10       1.1415            nan      0.1000      0.0383
##       20       0.9431            nan      0.1000      0.0230
##       40       0.7135            nan      0.1000      0.0150
##       60       0.5768            nan      0.1000      0.0084
##       80       0.4865            nan      0.1000      0.0066
##      100       0.4150            nan      0.1000      0.0033
##      120       0.3645            nan      0.1000      0.0028
##      140       0.3210            nan      0.1000      0.0032
##      150       0.3026            nan      0.1000      0.0029
##
## Iter   TrainDeviance  ValidDeviance   StepSize    Improve
##        1       1.6094            nan      0.1000      0.2125
##        2       1.4749            nan      0.1000      0.1481
##        3       1.3847            nan      0.1000      0.1215
##        4       1.3084            nan      0.1000      0.0954
##        5       1.2483            nan      0.1000      0.0821
##        6       1.1967            nan      0.1000      0.0684
##        7       1.1528            nan      0.1000      0.0672
##        8       1.1115            nan      0.1000      0.0559
##        9       1.0764            nan      0.1000      0.0623
##       10       1.0380            nan      0.1000      0.0572
##       20       0.8011            nan      0.1000      0.0322
##       40       0.5564            nan      0.1000      0.0091
##       60       0.4210            nan      0.1000      0.0061
##       80       0.3349            nan      0.1000      0.0055
##      100       0.2755            nan      0.1000      0.0035
##      120       0.2323            nan      0.1000      0.0017
##      140       0.1983            nan      0.1000      0.0013
##      150       0.1829            nan      0.1000      0.0019
##
## Iter   TrainDeviance  ValidDeviance   StepSize    Improve
##        1       1.6094            nan      0.1000      0.1104
##        2       1.5368            nan      0.1000      0.0772
##        3       1.4875            nan      0.1000      0.0602
```

```
##      4     1.4497           nan      0.1000    0.0462
##      5     1.4205           nan      0.1000    0.0435
##      6     1.3920           nan      0.1000    0.0411
##      7     1.3656           nan      0.1000    0.0379
##      8     1.3421           nan      0.1000    0.0333
##      9     1.3200           nan      0.1000    0.0290
##     10     1.3010           nan      0.1000    0.0303
##     20     1.1509           nan      0.1000    0.0182
##     40     0.9777           nan      0.1000    0.0100
##     60     0.8646           nan      0.1000    0.0051
##     80     0.7793           nan      0.1000    0.0053
##    100     0.7138           nan      0.1000    0.0034
##    120     0.6593           nan      0.1000    0.0021
##    140     0.6128           nan      0.1000    0.0031
##    150     0.5919           nan      0.1000    0.0027
##
## Iter   TrainDeviance  ValidDeviance   StepSize   Improve
##      1     1.6094           nan      0.1000    0.1713
##      2     1.5031           nan      0.1000    0.1168
##      3     1.4311           nan      0.1000    0.0966
##      4     1.3716           nan      0.1000    0.0750
##      5     1.3238           nan      0.1000    0.0669
##      6     1.2809           nan      0.1000    0.0616
##      7     1.2436           nan      0.1000    0.0565
##      8     1.2077           nan      0.1000    0.0622
##      9     1.1703           nan      0.1000    0.0480
##     10     1.1401           nan      0.1000    0.0396
##     20     0.9451           nan      0.1000    0.0221
##     40     0.7139           nan      0.1000    0.0160
##     60     0.5830           nan      0.1000    0.0109
##     80     0.4837           nan      0.1000    0.0070
##    100     0.4147           nan      0.1000    0.0065
##    120     0.3602           nan      0.1000    0.0024
##    140     0.3205           nan      0.1000    0.0028
##    150     0.3004           nan      0.1000    0.0013
##
## Iter   TrainDeviance  ValidDeviance   StepSize   Improve
##      1     1.6094           nan      0.1000    0.2101
##      2     1.4776           nan      0.1000    0.1472
##      3     1.3858           nan      0.1000    0.1279
##      4     1.3081           nan      0.1000    0.0941
##      5     1.2500           nan      0.1000    0.0858
##      6     1.1981           nan      0.1000    0.0708
##      7     1.1539           nan      0.1000    0.0621
##      8     1.1150           nan      0.1000    0.0685
##      9     1.0729           nan      0.1000    0.0497
##     10     1.0410           nan      0.1000    0.0491
##     20     0.8024           nan      0.1000    0.0288
##     40     0.5568           nan      0.1000    0.0118
##     60     0.4178           nan      0.1000    0.0094
##     80     0.3350           nan      0.1000    0.0046
##    100     0.2765           nan      0.1000    0.0036
##    120     0.2320           nan      0.1000    0.0015
##    140     0.1968           nan      0.1000    0.0017
```

```
##     150        0.1827           nan     0.1000    0.0012
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##     1        1.6094           nan     0.1000    0.1152
##     2        1.5373           nan     0.1000    0.0799
##     3        1.4877           nan     0.1000    0.0598
##     4        1.4508           nan     0.1000    0.0506
##     5        1.4189           nan     0.1000    0.0475
##     6        1.3882           nan     0.1000    0.0375
##     7        1.3641           nan     0.1000    0.0320
##     8        1.3433           nan     0.1000    0.0340
##     9        1.3212           nan     0.1000    0.0326
##    10        1.2998           nan     0.1000    0.0315
##    20        1.1493           nan     0.1000    0.0180
##    40        0.9749           nan     0.1000    0.0090
##    60        0.8607           nan     0.1000    0.0058
##    80        0.7776           nan     0.1000    0.0042
##   100        0.7129           nan     0.1000    0.0039
##   120        0.6602           nan     0.1000    0.0026
##   140        0.6130           nan     0.1000    0.0032
##   150        0.5922           nan     0.1000    0.0036
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##     1        1.6094           nan     0.1000    0.1725
##     2        1.5019           nan     0.1000    0.1169
##     3        1.4279           nan     0.1000    0.0935
##     4        1.3684           nan     0.1000    0.0770
##     5        1.3209           nan     0.1000    0.0678
##     6        1.2789           nan     0.1000    0.0672
##     7        1.2375           nan     0.1000    0.0606
##     8        1.1990           nan     0.1000    0.0526
##     9        1.1671           nan     0.1000    0.0505
##    10        1.1356           nan     0.1000    0.0435
##    20        0.9429           nan     0.1000    0.0254
##    40        0.7123           nan     0.1000    0.0134
##    60        0.5691           nan     0.1000    0.0047
##    80        0.4827           nan     0.1000    0.0048
##   100        0.4110           nan     0.1000    0.0029
##   120        0.3594           nan     0.1000    0.0032
##   140        0.3182           nan     0.1000    0.0025
##   150        0.2998           nan     0.1000    0.0034
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##     1        1.6094           nan     0.1000    0.2135
##     2        1.4760           nan     0.1000    0.1512
##     3        1.3829           nan     0.1000    0.1197
##     4        1.3091           nan     0.1000    0.0999
##     5        1.2474           nan     0.1000    0.0852
##     6        1.1943           nan     0.1000    0.0762
##     7        1.1461           nan     0.1000    0.0657
##     8        1.1054           nan     0.1000    0.0587
##     9        1.0688           nan     0.1000    0.0630
##    10        1.0311           nan     0.1000    0.0546
##    20        0.7919           nan     0.1000    0.0287
```

```
##      40       0.5462           nan      0.1000     0.0126
##      60       0.4149           nan      0.1000     0.0065
##      80       0.3305           nan      0.1000     0.0076
##     100       0.2719           nan      0.1000     0.0030
##     120       0.2298           nan      0.1000     0.0029
##     140       0.1959           nan      0.1000     0.0011
##     150       0.1828           nan      0.1000     0.0013
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1       1.6094           nan      0.1000     0.1116
##      2       1.5372           nan      0.1000     0.0794
##      3       1.4882           nan      0.1000     0.0618
##      4       1.4498           nan      0.1000     0.0484
##      5       1.4196           nan      0.1000     0.0396
##      6       1.3941           nan      0.1000     0.0442
##      7       1.3657           nan      0.1000     0.0393
##      8       1.3413           nan      0.1000     0.0322
##      9       1.3205           nan      0.1000     0.0305
##     10       1.3011           nan      0.1000     0.0265
##     20       1.1537           nan      0.1000     0.0186
##     40       0.9775           nan      0.1000     0.0113
##     60       0.8632           nan      0.1000     0.0049
##     80       0.7803           nan      0.1000     0.0047
##     100       0.7165           nan      0.1000     0.0046
##     120       0.6608           nan      0.1000     0.0022
##     140       0.6142           nan      0.1000     0.0040
##     150       0.5936           nan      0.1000     0.0025
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1       1.6094           nan      0.1000     0.1682
##      2       1.5023           nan      0.1000     0.1220
##      3       1.4260           nan      0.1000     0.0947
##      4       1.3670           nan      0.1000     0.0717
##      5       1.3203           nan      0.1000     0.0735
##      6       1.2753           nan      0.1000     0.0673
##      7       1.2321           nan      0.1000     0.0513
##      8       1.2011           nan      0.1000     0.0553
##      9       1.1669           nan      0.1000     0.0447
##     10       1.1390           nan      0.1000     0.0456
##     20       0.9345           nan      0.1000     0.0296
##     40       0.7146           nan      0.1000     0.0114
##     60       0.5757           nan      0.1000     0.0058
##     80       0.4854           nan      0.1000     0.0046
##     100       0.4178           nan      0.1000     0.0052
##     120       0.3622           nan      0.1000     0.0023
##     140       0.3204           nan      0.1000     0.0021
##     150       0.3026           nan      0.1000     0.0019
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##      1       1.6094           nan      0.1000     0.2073
##      2       1.4814           nan      0.1000     0.1528
##      3       1.3881           nan      0.1000     0.1161
##      4       1.3167           nan      0.1000     0.1017
##      5       1.2550           nan      0.1000     0.0850
```

```
##         6      1.2027           nan      0.1000     0.0723
##         7      1.1561           nan      0.1000     0.0689
##         8      1.1127           nan      0.1000     0.0625
##         9      1.0747           nan      0.1000     0.0515
##        10      1.0425           nan      0.1000     0.0571
##        20      0.8095           nan      0.1000     0.0346
##        40      0.5604           nan      0.1000     0.0129
##        60      0.4217           nan      0.1000     0.0080
##        80      0.3377           nan      0.1000     0.0031
##       100      0.2799           nan      0.1000     0.0028
##       120      0.2355           nan      0.1000     0.0022
##       140      0.1998           nan      0.1000     0.0014
##       150      0.1852           nan      0.1000     0.0015
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##         1      1.6094           nan      0.1000     0.1153
##         2      1.5366           nan      0.1000     0.0796
##         3      1.4866           nan      0.1000     0.0594
##         4      1.4494           nan      0.1000     0.0506
##         5      1.4171           nan      0.1000     0.0390
##         6      1.3913           nan      0.1000     0.0426
##         7      1.3637           nan      0.1000     0.0391
##         8      1.3384           nan      0.1000     0.0335
##         9      1.3165           nan      0.1000     0.0329
##        10      1.2957           nan      0.1000     0.0271
##        20      1.1485           nan      0.1000     0.0199
##        40      0.9740           nan      0.1000     0.0088
##        60      0.8621           nan      0.1000     0.0060
##        80      0.7797           nan      0.1000     0.0070
##       100      0.7145           nan      0.1000     0.0040
##       120      0.6593           nan      0.1000     0.0032
##       140      0.6133           nan      0.1000     0.0033
##       150      0.5909           nan      0.1000     0.0025
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##         1      1.6094           nan      0.1000     0.1728
##         2      1.5014           nan      0.1000     0.1207
##         3      1.4261           nan      0.1000     0.0932
##         4      1.3679           nan      0.1000     0.0764
##         5      1.3195           nan      0.1000     0.0714
##         6      1.2751           nan      0.1000     0.0568
##         7      1.2404           nan      0.1000     0.0588
##         8      1.2039           nan      0.1000     0.0589
##         9      1.1690           nan      0.1000     0.0440
##        10      1.1412           nan      0.1000     0.0411
##        20      0.9385           nan      0.1000     0.0206
##        40      0.7061           nan      0.1000     0.0103
##        60      0.5693           nan      0.1000     0.0065
##        80      0.4791           nan      0.1000     0.0052
##       100      0.4104           nan      0.1000     0.0027
##       120      0.3604           nan      0.1000     0.0030
##       140      0.3176           nan      0.1000     0.0031
##       150      0.2988           nan      0.1000     0.0021
##
```

```
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      1.6094            nan        0.1000    0.2113
##      2      1.4767            nan        0.1000    0.1508
##      3      1.3828            nan        0.1000    0.1282
##      4      1.3052            nan        0.1000    0.1032
##      5      1.2421            nan        0.1000    0.0793
##      6      1.1922            nan        0.1000    0.0665
##      7      1.1504            nan        0.1000    0.0676
##      8      1.1092            nan        0.1000    0.0587
##      9      1.0734            nan        0.1000    0.0475
##     10      1.0429            nan        0.1000    0.0524
##     20      0.8051            nan        0.1000    0.0385
##     40      0.5520            nan        0.1000    0.0112
##     60      0.4249            nan        0.1000    0.0085
##     80      0.3391            nan        0.1000    0.0041
##    100      0.2820            nan        0.1000    0.0027
##    120      0.2362            nan        0.1000    0.0021
##    140      0.2003            nan        0.1000    0.0026
##    150      0.1833            nan        0.1000    0.0008
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      1.6094            nan        0.1000    0.1131
##      2      1.5373            nan        0.1000    0.0794
##      3      1.4875            nan        0.1000    0.0613
##      4      1.4485            nan        0.1000    0.0494
##      5      1.4170            nan        0.1000    0.0410
##      6      1.3902            nan        0.1000    0.0432
##      7      1.3624            nan        0.1000    0.0389
##      8      1.3386            nan        0.1000    0.0318
##      9      1.3176            nan        0.1000    0.0292
##     10      1.2981            nan        0.1000    0.0323
##     20      1.1486            nan        0.1000    0.0175
##     40      0.9718            nan        0.1000    0.0091
##     60      0.8613            nan        0.1000    0.0066
##     80      0.7782            nan        0.1000    0.0039
##    100      0.7119            nan        0.1000    0.0028
##    120      0.6594            nan        0.1000    0.0031
##    140      0.6114            nan        0.1000    0.0022
##    150      0.5916            nan        0.1000    0.0030
##
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      1.6094            nan        0.1000    0.1736
##      2      1.5025            nan        0.1000    0.1230
##      3      1.4268            nan        0.1000    0.0926
##      4      1.3684            nan        0.1000    0.0818
##      5      1.3176            nan        0.1000    0.0625
##      6      1.2782            nan        0.1000    0.0789
##      7      1.2307            nan        0.1000    0.0575
##      8      1.1952            nan        0.1000    0.0477
##      9      1.1651            nan        0.1000    0.0440
##     10      1.1375            nan        0.1000    0.0441
##     20      0.9366            nan        0.1000    0.0224
##     40      0.7168            nan        0.1000    0.0115
##     60      0.5771            nan        0.1000    0.0090
```

```
##        80       0.4852            nan      0.1000     0.0053
##       100       0.4127            nan      0.1000     0.0030
##       120       0.3638            nan      0.1000     0.0023
##       140       0.3195            nan      0.1000     0.0024
##       150       0.3014            nan      0.1000     0.0021
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##         1       1.6094            nan      0.1000     0.2106
##         2       1.4782            nan      0.1000     0.1530
##         3       1.3826            nan      0.1000     0.1109
##         4       1.3141            nan      0.1000     0.0907
##         5       1.2583            nan      0.1000     0.0951
##         6       1.1995            nan      0.1000     0.0725
##         7       1.1562            nan      0.1000     0.0784
##         8       1.1083            nan      0.1000     0.0676
##         9       1.0666            nan      0.1000     0.0526
##        10       1.0341            nan      0.1000     0.0450
##        20       0.8019            nan      0.1000     0.0261
##        40       0.5493            nan      0.1000     0.0113
##        60       0.4171            nan      0.1000     0.0066
##        80       0.3366            nan      0.1000     0.0038
##       100       0.2774            nan      0.1000     0.0026
##       120       0.2313            nan      0.1000     0.0017
##       140       0.1957            nan      0.1000     0.0015
##       150       0.1818            nan      0.1000     0.0009
##
## Iter   TrainDeviance   ValidDeviance   StepSize    Improve
##         1       1.6094            nan      0.1000     0.2135
##         2       1.4762            nan      0.1000     0.1497
##         3       1.3826            nan      0.1000     0.1266
##         4       1.3045            nan      0.1000     0.0944
##         5       1.2456            nan      0.1000     0.0795
##         6       1.1954            nan      0.1000     0.0757
##         7       1.1494            nan      0.1000     0.0659
##         8       1.1087            nan      0.1000     0.0651
##         9       1.0695            nan      0.1000     0.0618
##        10       1.0321            nan      0.1000     0.0561
##        20       0.8030            nan      0.1000     0.0240
##        40       0.5503            nan      0.1000     0.0122
##        60       0.4166            nan      0.1000     0.0075
##        80       0.3340            nan      0.1000     0.0034
##       100       0.2745            nan      0.1000     0.0050
##       120       0.2266            nan      0.1000     0.0016
##       140       0.1919            nan      0.1000     0.0010
##       150       0.1785            nan      0.1000     0.0015
```

```r
mlResults <- lapply(mlModels, mlPredicting)
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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```r
# Visualize accuracies in the report, results in the appendices
mlAccuracies <- as.data.frame(do.call(rbind,(lapply(mlResults, mlEvaluating))))
mlAccuracies
```
```
##                                  Method   Accuracy
## Accuracy                    Naive Bayes 0.7361088
## Accuracy1 Linear Discriminant Analysis 0.6824129
## Accuracy2                         CART 0.4836024
## Accuracy3 Stochastic Gradient Boosting 0.9600680
## Accuracy4                Random Forest 0.9926933
```

A. Decision trees

B. Random forests

C. Generalized boosted models

4. Data prediction

5. Conclusions

Appendices

A. Results of ML algorithms training

```
mlModels
```
```
## [[1]]
## Naive Bayes
##
## 13737 samples
##    51 predictor
##     5 classes: 'A', 'B', 'C', 'D', 'E'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 12363, 12363, 12364, 12362, 12363, 12363, ...
## Resampling results across tuning parameters:
##
##   usekernel  Accuracy   Kappa
##   FALSE      0.4989386  0.3816917
##    TRUE      0.7404823  0.6683833
##
## Tuning parameter 'fL' was held constant at a value of 0
## Tuning
##  parameter 'adjust' was held constant at a value of 1
## Accuracy was used to select the optimal model using the largest value.
## The final values used for the model were fL = 0, usekernel = TRUE and adjust
##  = 1.
##
## [[2]]
## Linear Discriminant Analysis
```

```
## 
## 13737 samples
##    51 predictor
##     5 classes: 'A', 'B', 'C', 'D', 'E'
## 
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 12363, 12364, 12363, 12362, 12364, 12362, ...
## Resampling results:
## 
##   Accuracy   Kappa
##   0.6919202  0.610044
## 
## 
## [[3]]
## CART
## 
## 13737 samples
##    51 predictor
##     5 classes: 'A', 'B', 'C', 'D', 'E'
## 
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 12362, 12364, 12363, 12363, 12364, 12365, ...
## Resampling results across tuning parameters:
## 
##   cp          Accuracy   Kappa
##   0.02970196  0.5099395  0.3620551
##   0.03692402  0.4744135  0.3147172
##   0.06410843  0.4275130  0.2373038
## 
## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was cp = 0.02970196.
## 
## [[4]]
## Stochastic Gradient Boosting
## 
## 13737 samples
##    51 predictor
##     5 classes: 'A', 'B', 'C', 'D', 'E'
## 
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 12364, 12363, 12364, 12363, 12364, 12363, ...
## Resampling results across tuning parameters:
## 
##   interaction.depth  n.trees  Accuracy   Kappa
##   1                   50      0.7407742  0.6712373
##   1                  100      0.8128419  0.7631084
##   1                  150      0.8461102  0.8052608
##   2                   50      0.8548449  0.8160856
##   2                  100      0.9047836  0.8794838
##   2                  150      0.9280784  0.9089841
##   3                   50      0.8926267  0.8640619
```

```
##    3                    100      0.9396533  0.9236362
##    3                    150      0.9601086  0.9495307
##
## Tuning parameter 'shrinkage' was held constant at a value of 0.1
##
## Tuning parameter 'n.minobsinnode' was held constant at a value of 10
## Accuracy was used to select the optimal model using the largest value.
## The final values used for the model were n.trees = 150, interaction.depth =
##  3, shrinkage = 0.1 and n.minobsinnode = 10.
##
## [[5]]
## Random Forest
##
## 13737 samples
##     51 predictor
##      5 classes: 'A', 'B', 'C', 'D', 'E'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 12362, 12365, 12364, 12364, 12364, 12364, ...
## Resampling results across tuning parameters:
##
##   mtry  Accuracy   Kappa
##    2    0.9911187  0.9887642
##   26    0.9925754  0.9906071
##   51    0.9879161  0.9847124
##
## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was mtry = 26.
```

B. Results of ML algorithms evaluation

```
mlResults
```

```
## [[1]]
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    A    B    C    D    E
##          A 1477  236  252  173   77
##          B   48  746   60    5  109
##          C   50   81  682  129   45
##          D   90   65   29  614   38
##          E    9   11    3   43  813
##
## Overall Statistics
##
##                Accuracy : 0.7361
##                  95% CI : (0.7246, 0.7473)
##     No Information Rate : 0.2845
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.6622
##
```

```
##  Mcnemar's Test P-Value : < 2.2e-16
##
## Statistics by Class:
##
##                     Class: A Class: B Class: C Class: D Class: E
## Sensitivity           0.8823   0.6550   0.6647   0.6369   0.7514
## Specificity           0.8247   0.9532   0.9372   0.9549   0.9863
## Pos Pred Value        0.6668   0.7707   0.6910   0.7344   0.9249
## Neg Pred Value        0.9463   0.9201   0.9298   0.9307   0.9463
## Prevalence            0.2845   0.1935   0.1743   0.1638   0.1839
## Detection Rate        0.2510   0.1268   0.1159   0.1043   0.1381
## Detection Prevalence  0.3764   0.1645   0.1677   0.1421   0.1494
## Balanced Accuracy     0.8535   0.8041   0.8010   0.7959   0.8688
##
## [[2]]
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    A    B    C    D    E
##         A 1359  170  104   52   57
##         B   49  720   93   44  190
##         C  138  143  654  122  118
##         D  123   56  149  685  119
##         E    5   50   26   61  598
##
## Overall Statistics
##
##                Accuracy : 0.6824
##                  95% CI : (0.6703, 0.6943)
##     No Information Rate : 0.2845
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.5982
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
## Statistics by Class:
##
##                     Class: A Class: B Class: C Class: D Class: E
## Sensitivity           0.8118   0.6321   0.6374   0.7106   0.5527
## Specificity           0.9090   0.9208   0.8928   0.9092   0.9704
## Pos Pred Value        0.7801   0.6569   0.5566   0.6051   0.8081
## Neg Pred Value        0.9240   0.9125   0.9210   0.9413   0.9059
## Prevalence            0.2845   0.1935   0.1743   0.1638   0.1839
## Detection Rate        0.2309   0.1223   0.1111   0.1164   0.1016
## Detection Prevalence  0.2960   0.1862   0.1997   0.1924   0.1257
## Balanced Accuracy     0.8604   0.7765   0.7651   0.8099   0.7616
##
## [[3]]
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    A    B    C    D    E
##         A 1528  484  493  440  245
```

```
##              B    20  376   23  171  218
##              C    86  122  441  140  138
##              D    37  157   69  213  193
##              E     3    0    0    0  288
##
## Overall Statistics
##
##                   Accuracy : 0.4836
##                     95% CI : (0.4708, 0.4965)
##        No Information Rate : 0.2845
##        P-Value [Acc > NIR] : < 2.2e-16
##
##                      Kappa : 0.3241
##
##   Mcnemar's Test P-Value : < 2.2e-16
##
## Statistics by Class:
##
##                      Class: A Class: B Class: C Class: D Class: E
## Sensitivity            0.9128  0.33011  0.42982  0.22095  0.26617
## Specificity            0.6053  0.90898  0.89998  0.90734  0.99938
## Pos Pred Value         0.4790  0.46535  0.47573  0.31839  0.98969
## Neg Pred Value         0.9458  0.84971  0.88201  0.85602  0.85806
## Prevalence             0.2845  0.19354  0.17434  0.16381  0.18386
## Detection Rate         0.2596  0.06389  0.07494  0.03619  0.04894
## Detection Prevalence   0.5421  0.13730  0.15752  0.11368  0.04945
## Balanced Accuracy      0.7591  0.61955  0.66490  0.56415  0.63277
##
## [[4]]
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    A    B    C    D    E
##          A 1640   30    0    1    0
##          B   20 1080   38    6    9
##          C    8   26  973   28   14
##          D    4    2   14  924   26
##          E    2    1    1    5 1033
##
## Overall Statistics
##
##                   Accuracy : 0.9601
##                     95% CI : (0.9547, 0.9649)
##        No Information Rate : 0.2845
##        P-Value [Acc > NIR] : < 2.2e-16
##
##                      Kappa : 0.9495
##
##   Mcnemar's Test P-Value : 3.736e-08
##
## Statistics by Class:
##
##                      Class: A Class: B Class: C Class: D Class: E
## Sensitivity            0.9797   0.9482   0.9483   0.9585   0.9547
```

```
## Specificity               0.9926    0.9846    0.9844    0.9907    0.9981
## Pos Pred Value             0.9814    0.9367    0.9276    0.9526    0.9914
## Neg Pred Value             0.9919    0.9875    0.9890    0.9919    0.9899
## Prevalence                 0.2845    0.1935    0.1743    0.1638    0.1839
## Detection Rate             0.2787    0.1835    0.1653    0.1570    0.1755
## Detection Prevalence       0.2839    0.1959    0.1782    0.1648    0.1771
## Balanced Accuracy          0.9862    0.9664    0.9664    0.9746    0.9764
##
## [[5]]
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    A    B    C    D    E
##          A 1668    7    0    0    0
##          B    3 1131    6    1    0
##          C    3    1 1016   11    2
##          D    0    0    4  951    4
##          E    0    0    0    1 1076
##
## Overall Statistics
##
##                Accuracy : 0.9927
##                  95% CI : (0.9902, 0.9947)
##     No Information Rate : 0.2845
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.9908
##
##  Mcnemar's Test P-Value : NA
##
## Statistics by Class:
##
##                     Class: A Class: B Class: C Class: D Class: E
## Sensitivity           0.9964   0.9930   0.9903   0.9865   0.9945
## Specificity           0.9983   0.9979   0.9965   0.9984   0.9998
## Pos Pred Value        0.9958   0.9912   0.9835   0.9917   0.9991
## Neg Pred Value        0.9986   0.9983   0.9979   0.9974   0.9988
## Prevalence            0.2845   0.1935   0.1743   0.1638   0.1839
## Detection Rate        0.2834   0.1922   0.1726   0.1616   0.1828
## Detection Prevalence  0.2846   0.1939   0.1755   0.1630   0.1830
## Balanced Accuracy     0.9974   0.9954   0.9934   0.9924   0.9971
```