Predicting Diagnosis of Liver Disease

```r
# Load libraries
library(tidyverse)
```

```
## -- Attaching packages -------------------------------------- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.3     v purrr   0.3.4
## v tibble  3.0.6     v dplyr   1.0.4
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1
```

```
## -- Conflicts ----------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
library(dplyr)
library(ISLR)
library(janitor)
```

```
##
## Attaching package: 'janitor'
```

```
## The following objects are masked from 'package:stats':
##
##     chisq.test, fisher.test
```

```r
library(AppliedPredictiveModeling)
library(caret)
```

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

```
##
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
##
##     lift
```

```r
library(corrplot)
```

```
## corrplot 0.84 loaded
```

```
library(pROC)
```

```
## Type 'citation("pROC")' for a citation.
```

```
##
## Attaching package: 'pROC'
```

```
## The following objects are masked from 'package:stats':
##
##      cov, smooth, var
```

```
library(MASS)
```

```
##
## Attaching package: 'MASS'
```

```
## The following object is masked from 'package:dplyr':
##
##      select
```

```
library(readxl)
library(glmnet)
```

```
## Loading required package: Matrix
```

```
##
## Attaching package: 'Matrix'
```

```
## The following objects are masked from 'package:tidyr':
##
##      expand, pack, unpack
```

```
## Loaded glmnet 4.1
```

```
library(mlbench)
library(pdp)
```

```
##
## Attaching package: 'pdp'
```

```
## The following object is masked from 'package:purrr':
##
##      partial
```

```
library(vip)
```

```
##
## Attaching package: 'vip'
```

```
## The following object is masked from 'package:utils':
##
##      vi
```

```
library(klaR)
library(rpart)
library(rpart.plot)
library(randomForest)
```

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

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

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

```
## The following object is masked from 'package:dplyr':
##
##      combine
```

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

```
library(ranger)
```

```
##
## Attaching package: 'ranger'
```

```
## The following object is masked from 'package:randomForest':
##
##      importance
```

```
library(ISLR)
library(caret)
library(e1071)
library(kernlab)
```

```
##
## Attaching package: 'kernlab'
```

```
## The following object is masked from 'package:purrr':
##
##      cross
```

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

```
library(DALEX)
```

```
## Registered S3 method overwritten by 'DALEX':
##   method             from
##   print.description  questionr
```

```
## Welcome to DALEX (version: 2.2.0).
## Find examples and detailed introduction at: http://ema.drwhy.ai/


##
## Attaching package: 'DALEX'

## The following object is masked from 'package:dplyr':
##
##     explain

library(gbm)


## Loaded gbm 2.1.8
```

Import data

```
liver_df = read_excel("./data/liver.xlsx") %>%
  mutate(outcome = ifelse(is_patient == 1, "yes", "no"), outcome = as.factor(outcome)) %>%
  dplyr::select(-is_patient) %>%
  clean_names %>%
  rename(
    aspartate_aminotransferase = sgpt,
    alamine_aminotransferase = sgot,
    albumin_globulin_ratio = ag_ratio,
    alkaline_phosphate = alkphos) %>%
  drop_na

liver_df$gender=factor(x=liver_df$gender,levels = c('Female','Male'),labels=c(0, 1))
liver_df$gender = as.double(liver_df$gender)
# female = '1', male = '2'
```

Exploratory Data Analysis

```
# Feature plots
theme1 <- transparentTheme(trans = .4)
trellis.par.set(theme1)
featurePlot(x = liver_df[, 1:10],
            y = liver_df$outcome,
            scales = list(x = list(relation = "free"),
                          y = list(relation = "free")),
            plot = "density", pch = "|",
            auto.key = list(columns = 2))
```
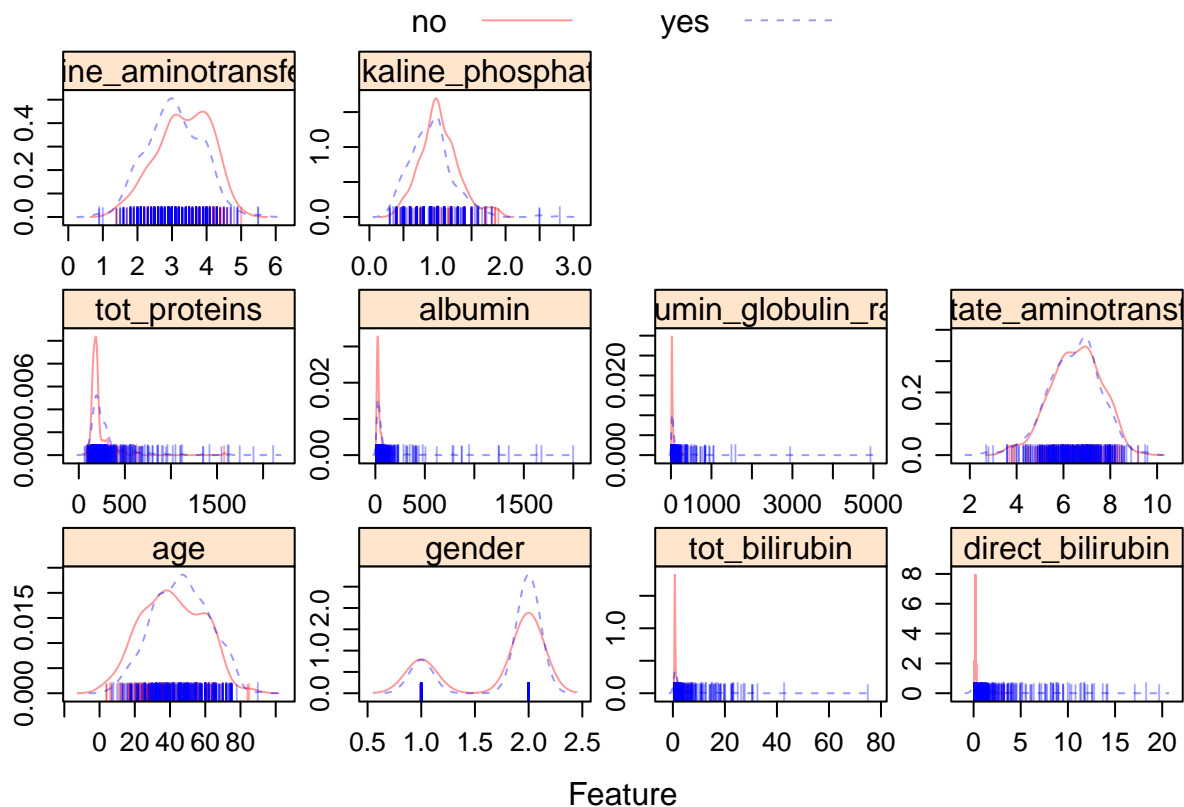
```
# dataset with all the log-transformed predictor variables
liver_df1 =
  liver_df %>%
  mutate(logtot_bilirubin = log(tot_bilirubin) +1,
         logdirect_bilirubin = log(direct_bilirubin) +1,
         logtot_proteins = log(tot_proteins) +1,
         logalbumin = log(albumin) +1,
         loggender = log(gender) +1,
         logalbumin_globulin_ratio = log(albumin_globulin_ratio) +1,
         logage = log(age) +1,
         logaspartate_aminotransferase = log(aspartate_aminotransferase) +1,
         logalamine_transferase = log(alamine_aminotransferase ) +1,
         logalkaline_phosphate = log(alkaline_phosphate) +1) %>%
         dplyr::select(logage, loggender, logtot_bilirubin, logdirect_bilirubin, logtot_proteins,
                       logalbumin, logalbumin_globulin_ratio, logaspartate_aminotransferase,
                       logalamine_transferase, logalkaline_phosphate, outcome)


theme1 <- transparentTheme(trans = .4)
trellis.par.set(theme1)
featurePlot(x = liver_df1[, 1:10],
            y = liver_df1$outcome,
            scales = list(x = list(relation = "free"),
                          y = list(relation = "free")),
            plot = "density", pch = "|",
            auto.key = list(columns = 2))
```
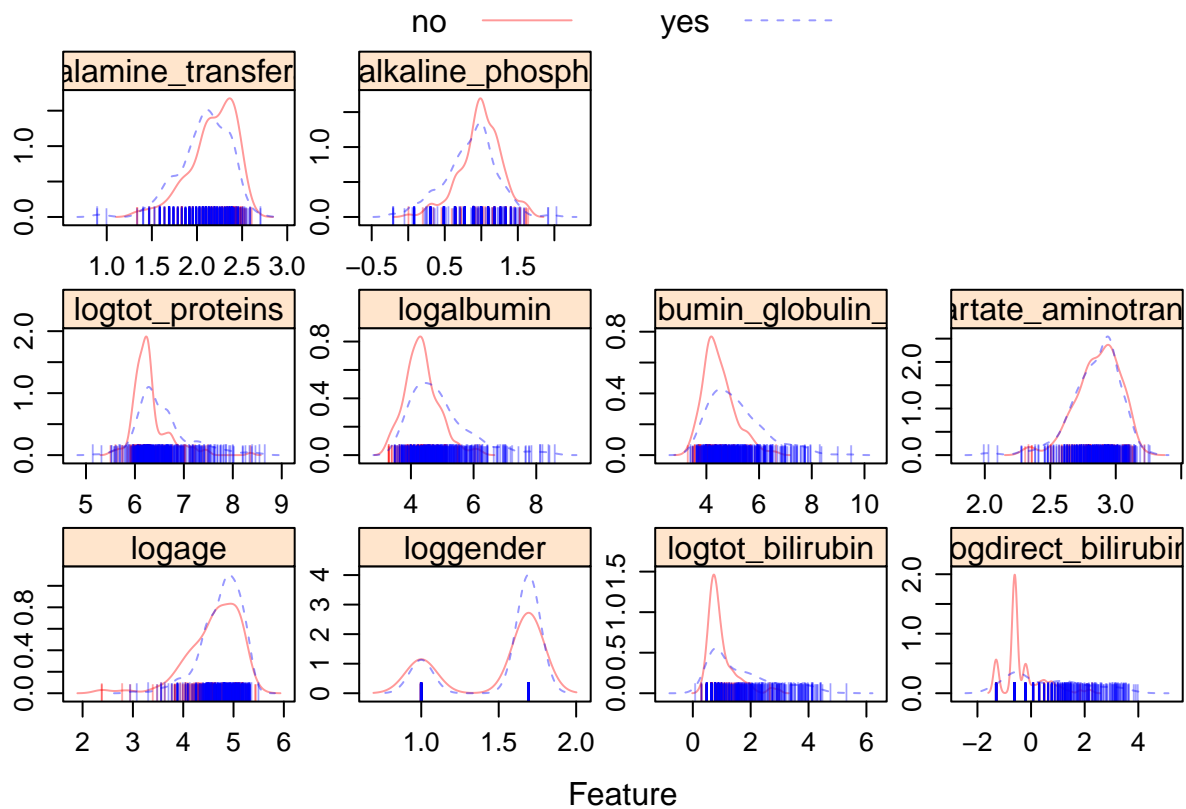
```
# Correlation plot
corrplot(cor(liver_df[,-11]), tl.srt = 45, order = 'hclust', type = 'upper')
```
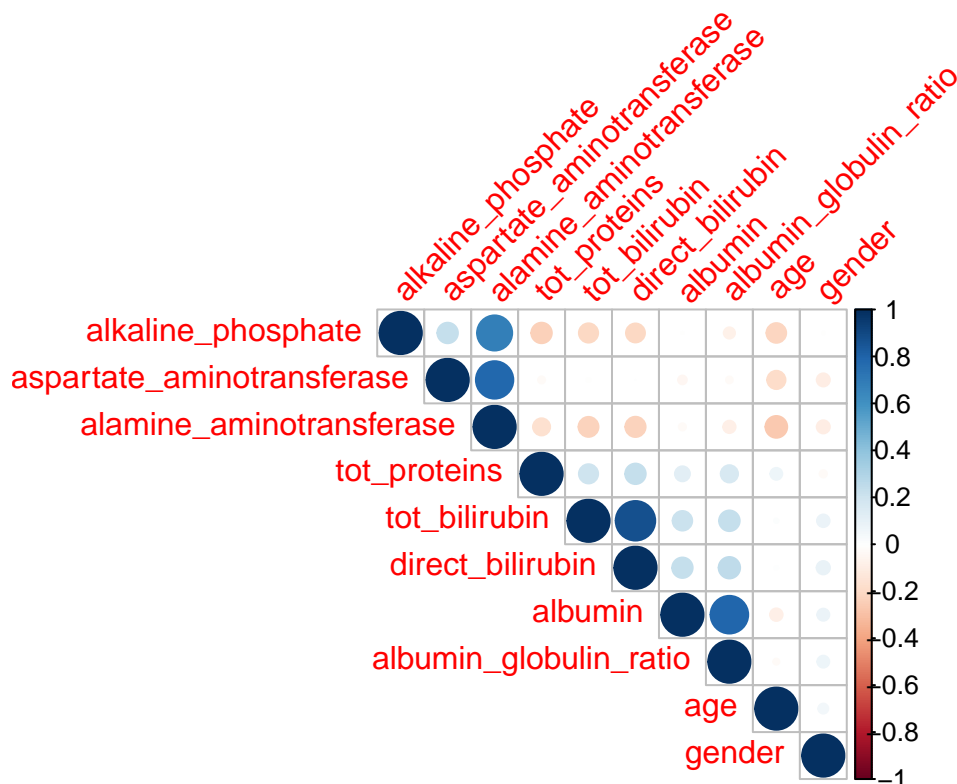
```
table(liver_df$outcome)
```

```
##
##  no yes
## 165 414
```

Data Partition

```
#Create Training and Test Datasets
set.seed(10)
dim(liver_df1)
```

```
## [1] 579  11
```

```
rowTrain <- createDataPartition(y = liver_df1$outcome,
                                p = 0.8,
                                list = FALSE)

liver.train = liver_df1[rowTrain, ]
```

```
## Warning: The 'i' argument of ''['()' can't be a matrix as of tibble 3.0.0.
## Convert to a vector.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_warnings()' to see where this warning was generated.
```

```
liver.test = liver_df1[-rowTrain, ]
```

Logistic Regression

```
#Fit Logistic Regression Model with all predictors
glm.fit <- glm(outcome ~ ., data = liver_df1,
               subset = rowTrain,
               family = binomial(link = "logit"))
summary(glm.fit)
```

```
##
## Call:
## glm(formula = outcome ~ ., family = binomial(link = "logit"),
##     data = liver_df1, subset = rowTrain)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.8567  -1.0195   0.4202   0.8414   1.6584
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
```

```
## (Intercept)                        -15.11618    4.47123   -3.381 0.000723 ***
## logage                               0.74111    0.26049    2.845 0.004440 **
## loggender                            0.24539    0.37642    0.652 0.514469
## logtot_bilirubin                     0.54443    0.53800    1.012 0.311554
## logdirect_bilirubin                 -0.04189    0.35933   -0.117 0.907183
## logtot_proteins                      0.31927    0.30501    1.047 0.295219
## logalbumin                           0.75082    0.28262    2.657 0.007893 **
## logalbumin_globulin_ratio            0.13377    0.25062    0.534 0.593500
## logaspartate_aminotransferase        5.03133    2.53732    1.983 0.047375 *
## logalamine_transferase              -4.88216    2.53278   -1.928 0.053906 .
## logalkaline_phosphate                1.55808    1.26055    1.236 0.216445
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 554.14  on 463  degrees of freedom
## Residual deviance: 456.81  on 453  degrees of freedom
## AIC: 478.81
##
## Number of Fisher Scoring iterations: 5
```

```r
# Confusion Matrix
test.pred.prob <- predict(glm.fit, newdata = liver_df1[-rowTrain,], type = "response")
test.pred <- rep("no", length(test.pred.prob))
test.pred[test.pred.prob > 0.5] <- "yes"
confusionMatrix(data = as.factor(test.pred), reference = liver_df1$outcome[-rowTrain],
                positive = "yes")
```

```
## Confusion Matrix and Statistics
##
##           Reference
## Prediction no yes
##        no   7   5
##        yes 26  77
##
##                Accuracy : 0.7304
##                  95% CI : (0.6397, 0.8089)
##     No Information Rate : 0.713
##     P-Value [Acc > NIR] : 0.383747
##
##                   Kappa : 0.1866
##
##  Mcnemar's Test P-Value : 0.000328
##
##             Sensitivity : 0.9390
##             Specificity : 0.2121
##          Pos Pred Value : 0.7476
##          Neg Pred Value : 0.5833
##              Prevalence : 0.7130
##          Detection Rate : 0.6696
##    Detection Prevalence : 0.8957
##       Balanced Accuracy : 0.5756
##
```

```
##           'Positive' Class : yes
##
```

```
# ROC Curve
roc.glm <- roc(liver_df1$outcome[-rowTrain], test.pred.prob)
```

```
## Setting levels: control = no, case = yes
```

```
## Setting direction: controls < cases
```

```
plot(roc.glm, legacy.axes = TRUE, print.auc = TRUE)
plot(smooth(roc.glm), col = 4, add = TRUE)
```
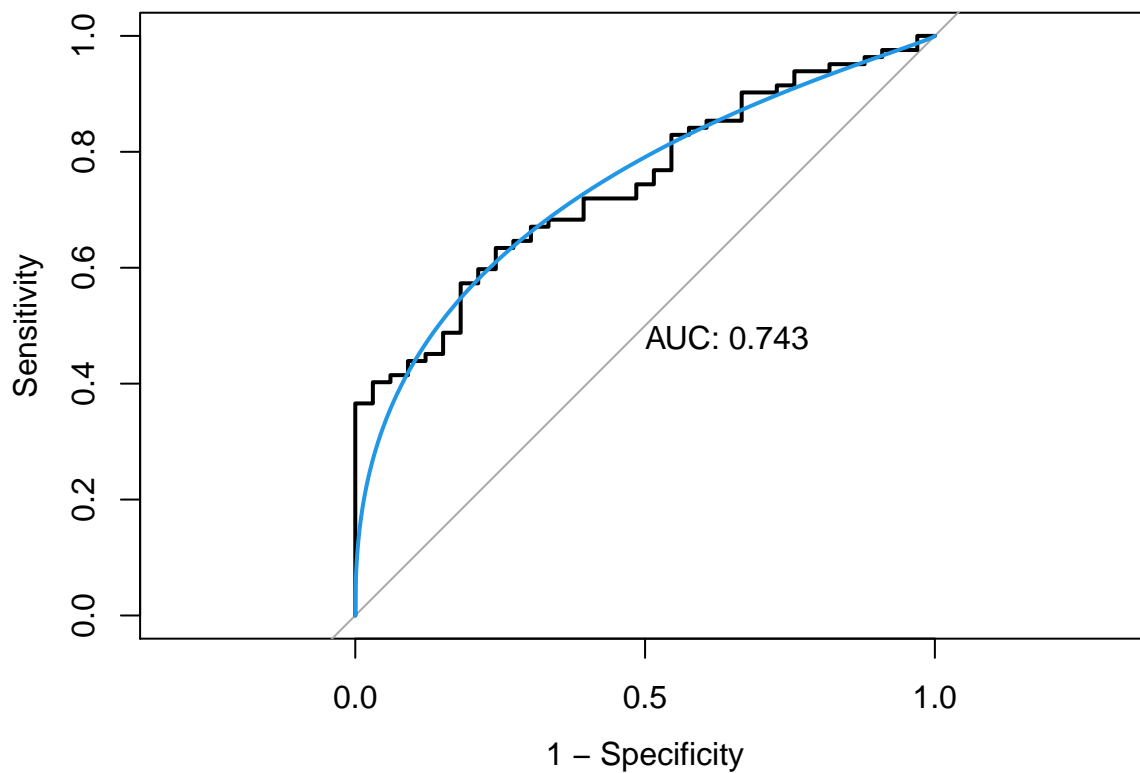


```
# Fit a logistic regression with CARET
set.seed(10)
ctrl <- trainControl(method = "repeatedcv", repeats = 10,
                     summaryFunction = twoClassSummary,
                     classProbs = TRUE)
model.glm <- train(x = liver_df1[rowTrain,1:10],
                   y = liver_df1$outcome[rowTrain],
                   method = "glm",
                   preProcess = c("center", "scale"),
                   metric = "ROC",
                   trControl = ctrl)
```

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```

Regularized logistic regression

```r
ctrl <- trainControl(method = "repeatedcv",
                     repeats = 5,
                     summaryFunction = twoClassSummary,
                     classProbs = TRUE)

set.seed(10)
glmnGrid <- expand.grid(.alpha = seq(0,1,length =6),
                        .lambda = exp(seq(-6,0,length =20)))
model.glmn <- train(x=liver_df1[rowTrain,1:10],
                    y=liver_df1$outcome[rowTrain],
                    method ="glmnet",
```

```
                    #preProcess = c("center", "scale"),
                    tuneGrid =glmnGrid,
                    metric ="ROC",
                    trControl =ctrl)
```

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```

```r
ggplot(model.glmn,xTrans = function(x)log(x), highlight = TRUE)
```
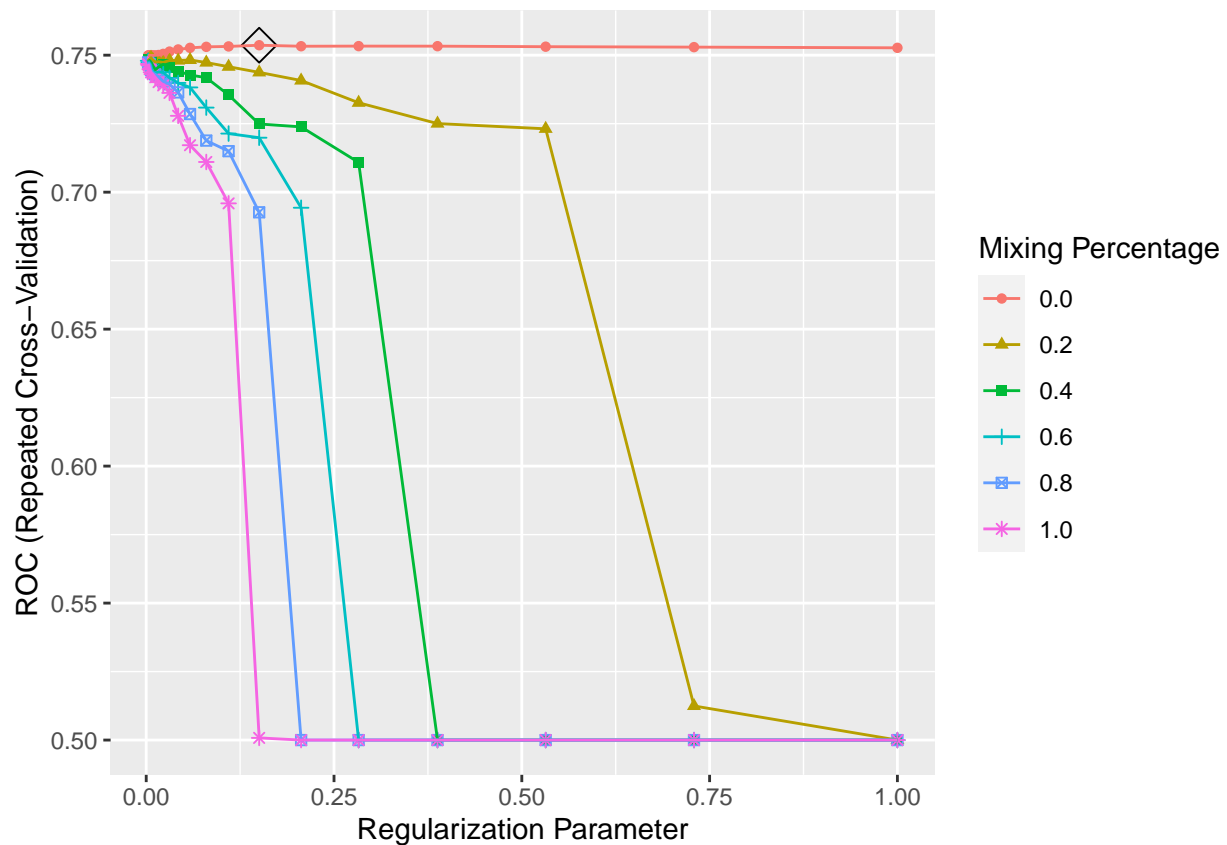


```r
max(model.glmn$result$ROC)
```

```
## [1] 0.7536379
```

```r
model.glmn$bestTune # alpha of 0 indicates a ridge regression.
```

```
##    alpha    lambda
## 14     0 0.1503579
```

```
coef(model.glmn$finalModel, s = model.glmn$bestTune$lambda)
```

```
## 11 x 1 sparse Matrix of class "dgCMatrix"
##                                         1
## (Intercept)                    -4.8091934
## logage                          0.3880113
## loggender                       0.2410487
## logtot_bilirubin                0.1845745
## logdirect_bilirubin             0.1342574
## logtot_proteins                 0.2520828
## logalbumin                      0.2631151
## logalbumin_globulin_ratio       0.1996150
## logaspartate_aminotransferase   0.1483546
## logalamine_transferase         -0.3099717
## logalkaline_phosphate          -0.3247082
```

MARS

```
set.seed(10)
model.mars <- train(x = liver_df1[rowTrain,1:10],
                    y = liver_df1$outcome[rowTrain],
                    method = "earth",
                    tuneGrid = expand.grid(degree = 1:3, nprune = 2:20),
                    metric = "ROC",
                    trControl = ctrl)
```

```
## Warning: Setting row names on a tibble is deprecated.
```

```
## Loading required package: earth
```

```
## Loading required package: Formula
```

```
## Loading required package: plotmo
```

```
## Loading required package: plotrix
```

```
## Loading required package: TeachingDemos
```

```
##
## Attaching package: 'TeachingDemos'
```

```
## The following object is masked from 'package:klaR':
##
##     triplot
```

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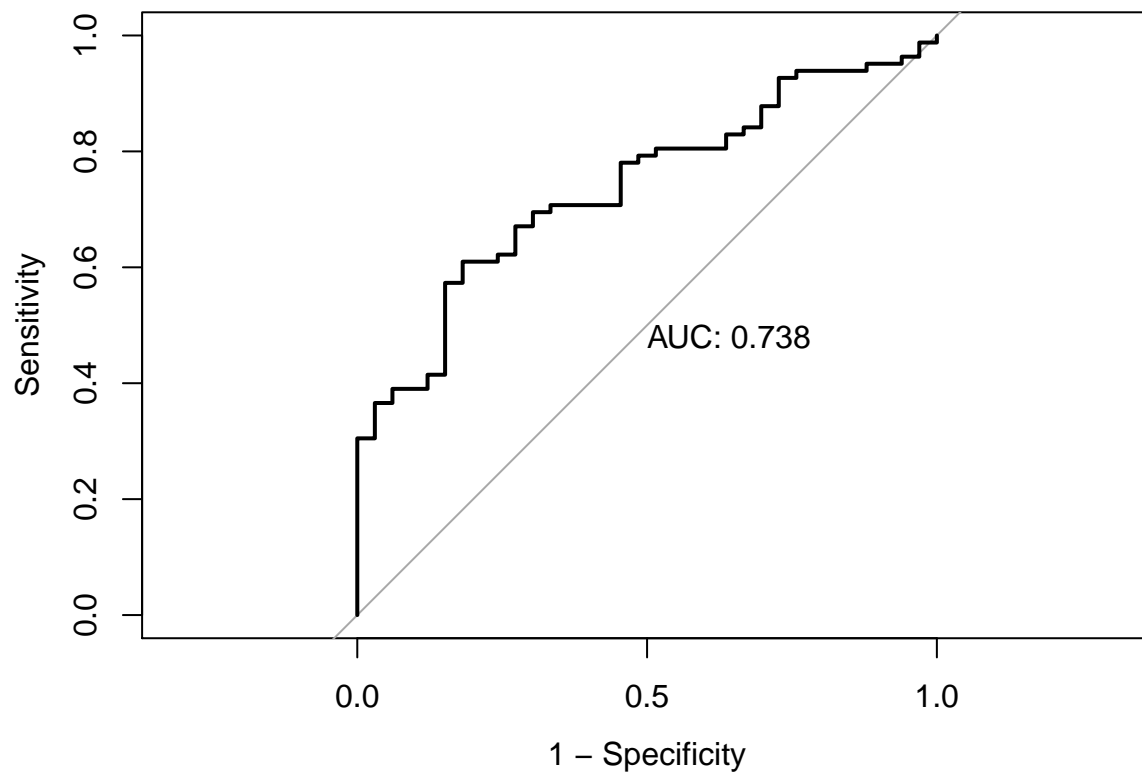
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```

```
plot(model.mars)
```



```
coef(model.mars$finalModel)
```

```
##                    (Intercept) h(logdirect_bilirubin- -0.609438)
```

```
##                    1.9750727                           0.5984348
##          h(5.70048-logalbumin)               h(5.31749-logage)
##                   -0.8982652                          -0.7549458
```

```
vip(model.mars$finalModel)
```
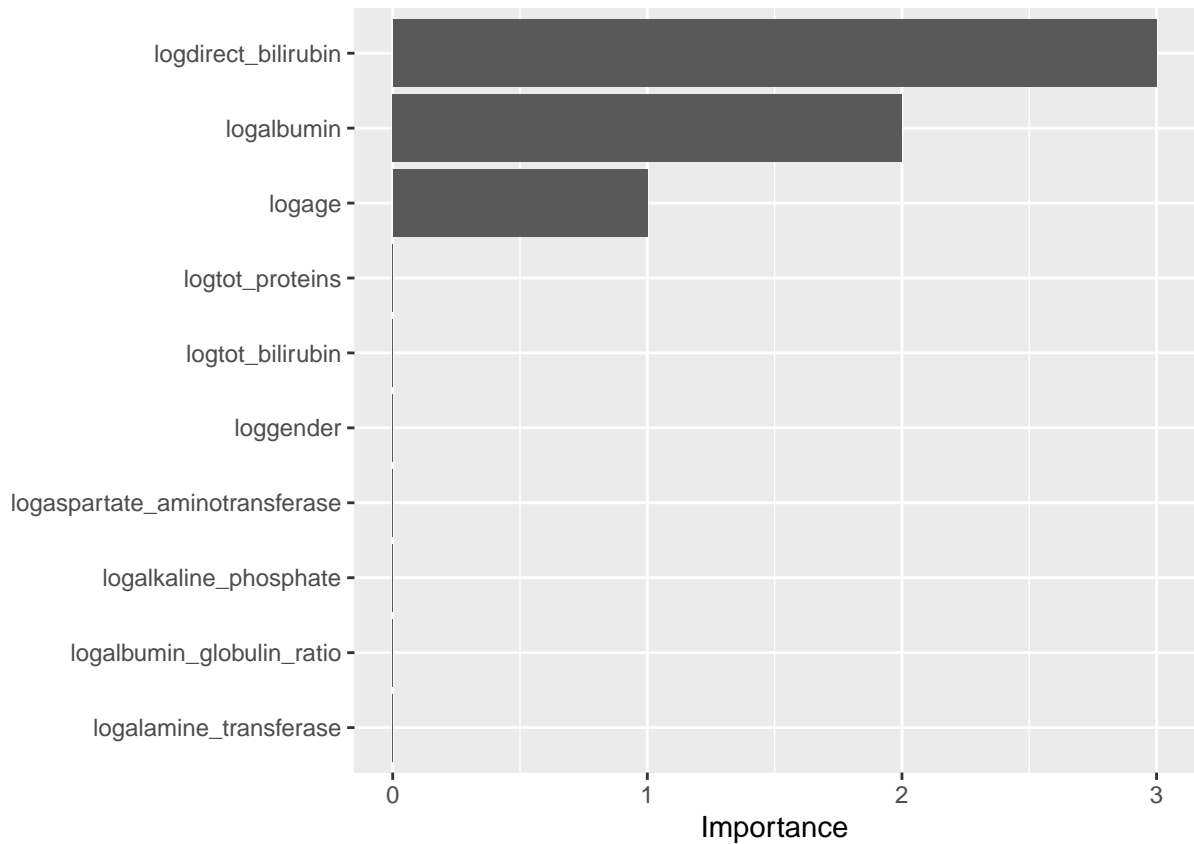

KNN

```
set.seed(10)
ctrl <- trainControl(method = "repeatedcv", repeats = 10,
                     summaryFunction = twoClassSummary,
                     classProbs = TRUE)

model.knn <- train(x = liver_df1[rowTrain,1:10],
                   y = liver_df1$outcome[rowTrain],
                   method = "knn",
                   preProcess = c("center", "scale"),
                   tuneGrid = data.frame(k = seq(1, 200, by = 5)),
                   trControl = ctrl)
```

```
## Warning in train.default(x = liver_df1[rowTrain, 1:10], y =
## liver_df1$outcome[rowTrain], : The metric "Accuracy" was not in the result set.
## ROC will be used instead.
```

```
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```

```
liver_df1$outcome[-rowTrain]
```

```
##   [1] yes yes no  no  yes yes yes yes yes yes yes no  yes no  yes yes no  yes
##  [19] yes yes yes yes yes no  no  yes yes yes no  yes no  yes yes yes yes
##  [37] yes yes yes no  no  yes yes yes yes no  no  yes no  yes no  yes yes yes
##  [55] yes yes yes no  yes yes no  no  no  yes yes yes yes yes yes no  no  no
##  [73] yes yes no  yes yes yes yes yes no  yes yes yes yes yes yes no  yes no
##  [91] no  yes yes yes no  yes yes yes yes no  yes no  no  no  yes yes yes yes
## [109] yes yes yes yes yes yes no
## Levels: no yes
```

```
model.knn$bestTune
```

```
##     k
## 40 196
```

```
pred_knn = predict(model.knn, newdata = liver.test, type = 'prob')
roc_knn <- roc(liver_df1$outcome[-rowTrain], pred_knn[,2])
```

```
## Setting levels: control = no, case = yes

## Setting direction: controls < cases
```

```
plot.roc(roc_knn, legacy.axes = TRUE, print.auc = TRUE)
```
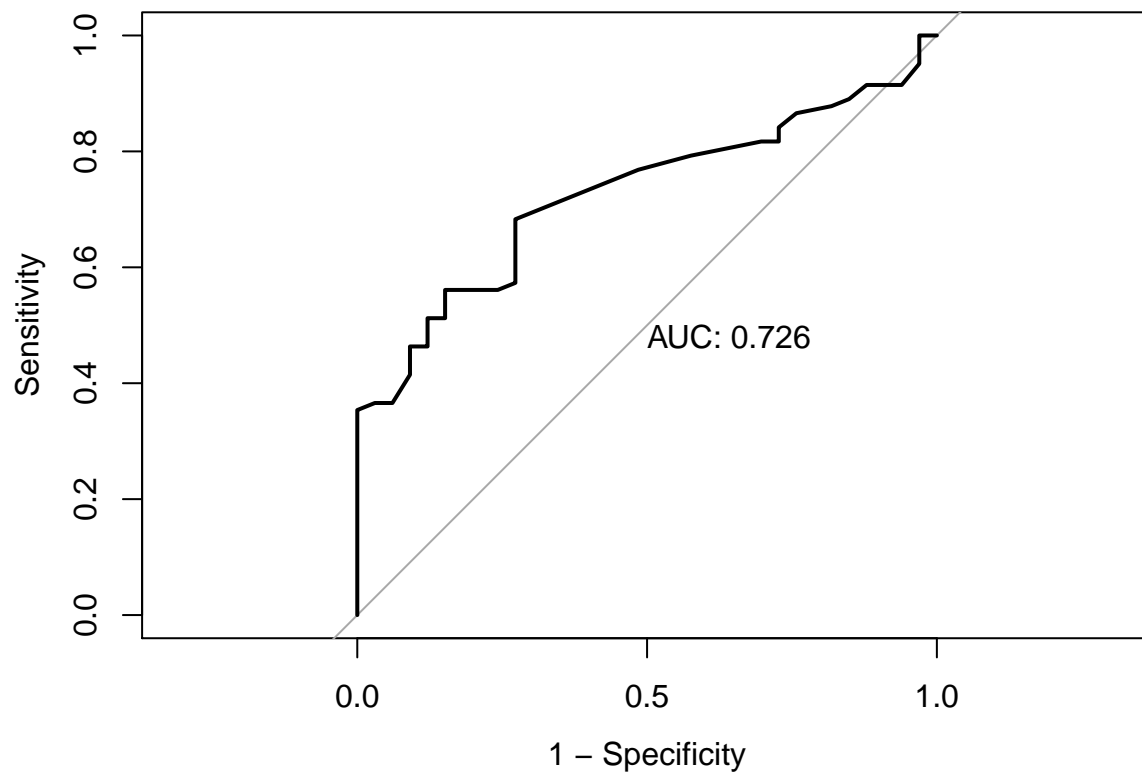
LDA

```
set.seed(10)
lda.fit <- lda(outcome~.,
               data = liver.train)



ctrl <- trainControl(method = "repeatedcv", repeats = 10,
                     summaryFunction = twoClassSummary,
                     classProbs = TRUE)
set.seed(10)
model.lda <- train(x = liver_df1[rowTrain,1:10],
                   y = liver_df1$outcome[rowTrain],
                   method = "lda",
                   metric = "ROC",
                   trControl = ctrl)
```

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```

```r
lda.pred <- predict(lda.fit, newdata = liver.test)
roc.lda <- roc(liver_df1[-rowTrain,]$outcome, lda.pred$posterior[,2])
```

```
## Setting levels: control = no, case = yes
```

```
## Setting direction: controls < cases
```

```r
plot(roc.lda, legacy.axes = TRUE, print.auc = TRUE)
```

QDA

```
set.seed(10)
qda.fit <- qda(outcome~.,
               data = liver.train)

set.seed(10)
model.qda <- train(x = liver_df1[rowTrain,1:10],
                   y = liver_df1$outcome[rowTrain],
                   method = "qda",
                   metric = "ROC",
                   trControl = ctrl)
```

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```

```r
qda.pred <- predict(qda.fit, newdata = liver.test)
roc.qda <- roc(liver_df1[-rowTrain,]$outcome, qda.pred$posterior[,2])
```

```
## Setting levels: control = no, case = yes

## Setting direction: controls < cases
```

```r
plot(roc.qda, legacy.axes = TRUE, print.auc = TRUE)
```

AUC: 0.690
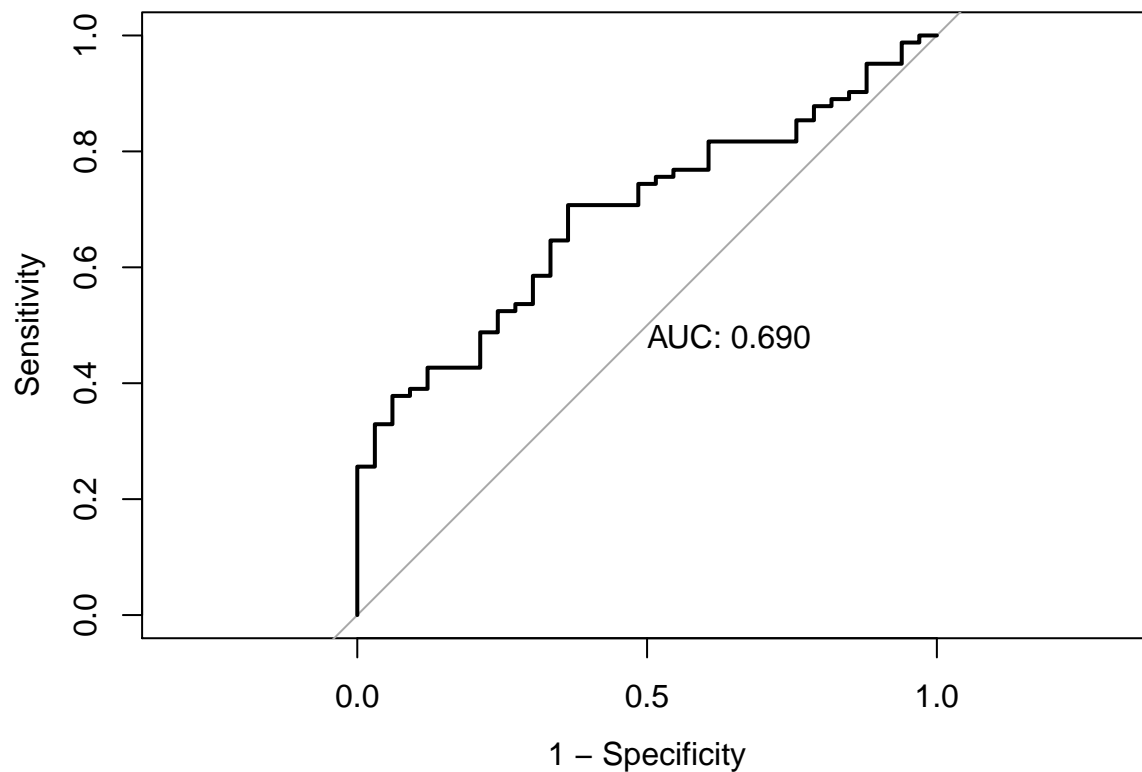
```
auc <- c(roc.lda$auc[1], roc.qda$auc[1])
```

Naive Bayes

```
nbGrid <- expand.grid(usekernel = c(FALSE,TRUE),
                      fL = 1,
                      adjust = seq(.2, 3, by = .2))
model.nb <- train(x = liver_df1[rowTrain,1:10],
                  y = liver_df1$outcome[rowTrain],
                  method = "nb",
                  tuneGrid = nbGrid,
                  metric = "ROC",
                  trControl = ctrl)
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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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 42

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

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## observation 17

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

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## observation 17

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37


## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

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## observation 37


## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28


## Warning: Setting row names on a tibble is deprecated.


## 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 14


## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
```

```
## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
```

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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
```

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

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## observation 28

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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 43

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[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 43

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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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: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

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## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13
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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 41
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## observation 41

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## observation 13
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## observation 41

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## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## 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 10

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 21

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 21

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 21

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37
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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: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## observation 37

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

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## Warning: Setting row names on a tibble is deprecated.

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## observation 22

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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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 34

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34
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## observation 34
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 21
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## Warning: Setting row names on a tibble is deprecated.
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## 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 19

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

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## observation 42


## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

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## observation 42


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41


## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41


## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

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## observation 41

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

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## observation 41

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## observation 41
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## observation 41
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41
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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 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 7

## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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

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

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 16

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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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 47
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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: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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 40

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40
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## observation 40
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.

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## observation 40

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## observation 40

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 19

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 19

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 19

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## observation 19
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20


## Warning: Setting row names on a tibble is deprecated.


## 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 11


## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20

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## Warning: Setting row names on a tibble is deprecated.

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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 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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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 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 14
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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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 35

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## observation 42

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## observation 14

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 42

## Warning: Setting row names on a tibble is deprecated.

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

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## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

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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 14
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## 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 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

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## observation 14

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 25
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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 39

## Warning in FUN(X[[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 39
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 44
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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: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning: Setting row names on a tibble is deprecated.

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

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

## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 33

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 33

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 33

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## observation 17

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## observation 37

## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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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 31

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 29

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

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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 32

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 29

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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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: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17
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## Warning: Setting row names on a tibble is deprecated.
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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: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## 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 14

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45

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## observation 45

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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning: Setting row names on a tibble is deprecated.

## 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 11

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## 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 11

## Warning: Setting row names on a tibble is deprecated.

## 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 11

## Warning: Setting row names on a tibble is deprecated.

## 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 11

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[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: Setting row names on a tibble is deprecated.

## 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: Setting row names on a tibble is deprecated.

## 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 11
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## Warning: Setting row names on a tibble is deprecated.

## 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: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

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

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## Warning: Setting row names on a tibble is deprecated.

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

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## observation 11

## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

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## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

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## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

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## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

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## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.
```

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43


## Warning: Setting row names on a tibble is deprecated.


## 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 17


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43


## 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 17


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43


## Warning: Setting row names on a tibble is deprecated.


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22


## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43
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## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[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 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

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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: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

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## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning: Setting row names on a tibble is deprecated.

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## observation 38
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## Warning: Setting row names on a tibble is deprecated.
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38


## Warning: Setting row names on a tibble is deprecated.

## Warning: Setting row names on a tibble is deprecated.


## 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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```
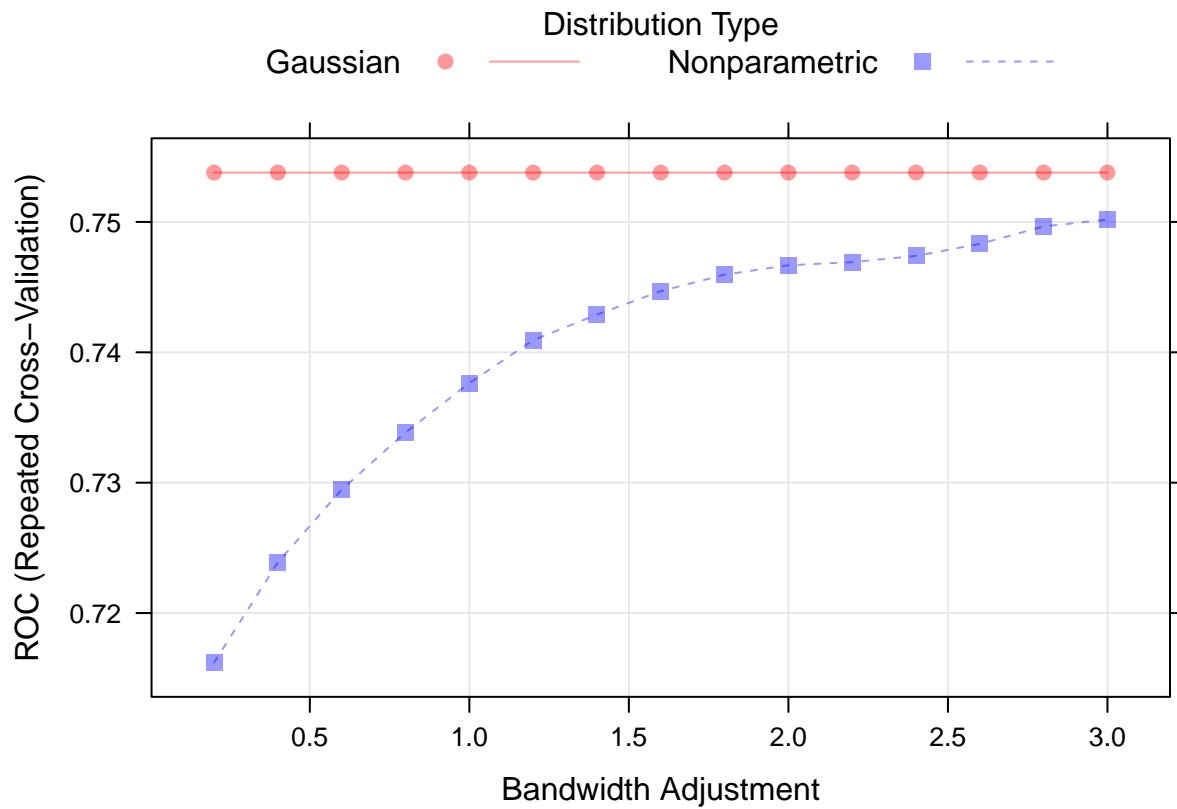
```
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```

```
plot(model.nb)
```


CLASSIFICATION TREE

```
set.seed(1)
tree1 = rpart(formula = outcome ~ ., data = liver_df1, subset = rowTrain,
              control = rpart.control(cp = 0))
cpTable = printcp(tree1)
```

```
##
## Classification tree:
## rpart(formula = outcome ~ ., data = liver_df1, subset = rowTrain,
##     control = rpart.control(cp = 0))
##
## Variables actually used in tree construction:
## [1] logage                  logalamine_transferase
## [3] logalbumin              logalbumin_globulin_ratio
## [5] logalkaline_phosphate   logdirect_bilirubin
## [7] loggender               logtot_bilirubin
## [9] logtot_proteins
##
## Root node error: 132/464 = 0.28448
##
## n= 464
```

```
## 
##            CP nsplit rel error xerror     xstd
## 1 0.0208333      0    1.00000 1.0000 0.073625
## 2 0.0151515     13    0.65909 1.1061 0.075780
## 3 0.0075758     15    0.62879 1.1591 0.076717
## 4 0.0050505     17    0.61364 1.1364 0.076327
## 5 0.0037879     20    0.59848 1.1439 0.076459
## 6 0.0000000     22    0.59091 1.1667 0.076844
```

```r
minErr = which.min(cpTable[,4])

tree2 = prune(tree1, cp = cpTable[minErr,1])
rpart.plot(tree2)
```


RANDOM FORESTS

```r
ctrl2 = trainControl(method = "cv", classProbs = T, summaryFunction = twoClassSummary)

rf.grid = expand.grid(mtry = 1:10, splitrule = "gini",
                      min.node.size = seq(from = 2, to = 10, by = 2))

set.seed(1)
rf.fit = train(outcome ~ ., liver_df1, subset = rowTrain, method = "ranger",
               tuneGrid = rf.grid, metric = "ROC", trControl = ctrl2)

ggplot(rf.fit, highlight = T)
```
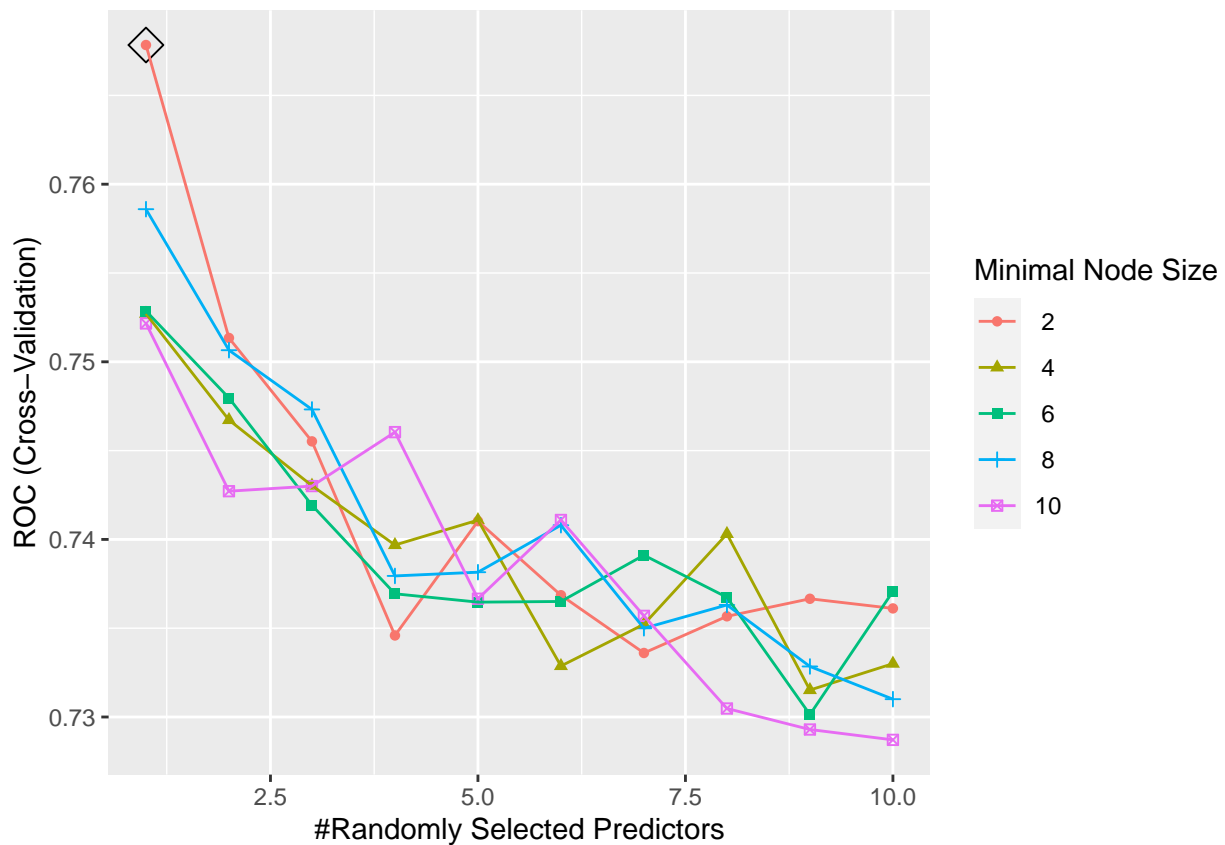
```
rf.pred = predict(rf.fit, newdata = liver_df1[-rowTrain, ], type = "prob")[,1]
roc.rf = roc(liver_df1$outcome[-rowTrain], rf.pred)
```

```
## Setting levels: control = no, case = yes
```

```
## Setting direction: controls > cases
```

```
plot(roc.rf)
auc = c(roc.rf$auc[1])
modelNames = c("Random Forest")
legend("bottomright", legend = paste0(modelNames, ": ", round(auc,3)))
```
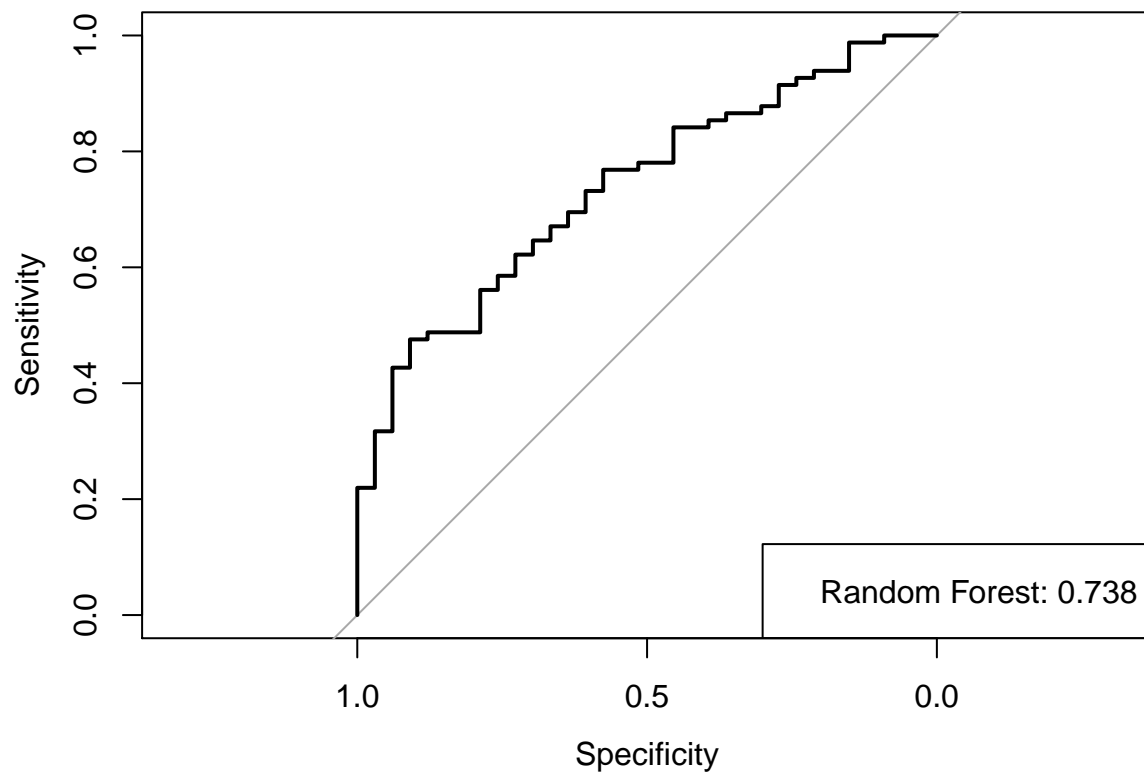
SVM

```
#linear
ctrl <-trainControl(method = "cv")
set.seed(10)
svm.linear.model <- train(
  outcome ~., data = liver.train, method = "svmLinear",
  trControl = ctrl,
  #preProcess = c("center", "scale"),
  tuneGrid =data.frame(C =exp(seq(-10,1,len=20)))),
  )

plot(svm.linear.model, highlight = TRUE, xTrans = log)
```
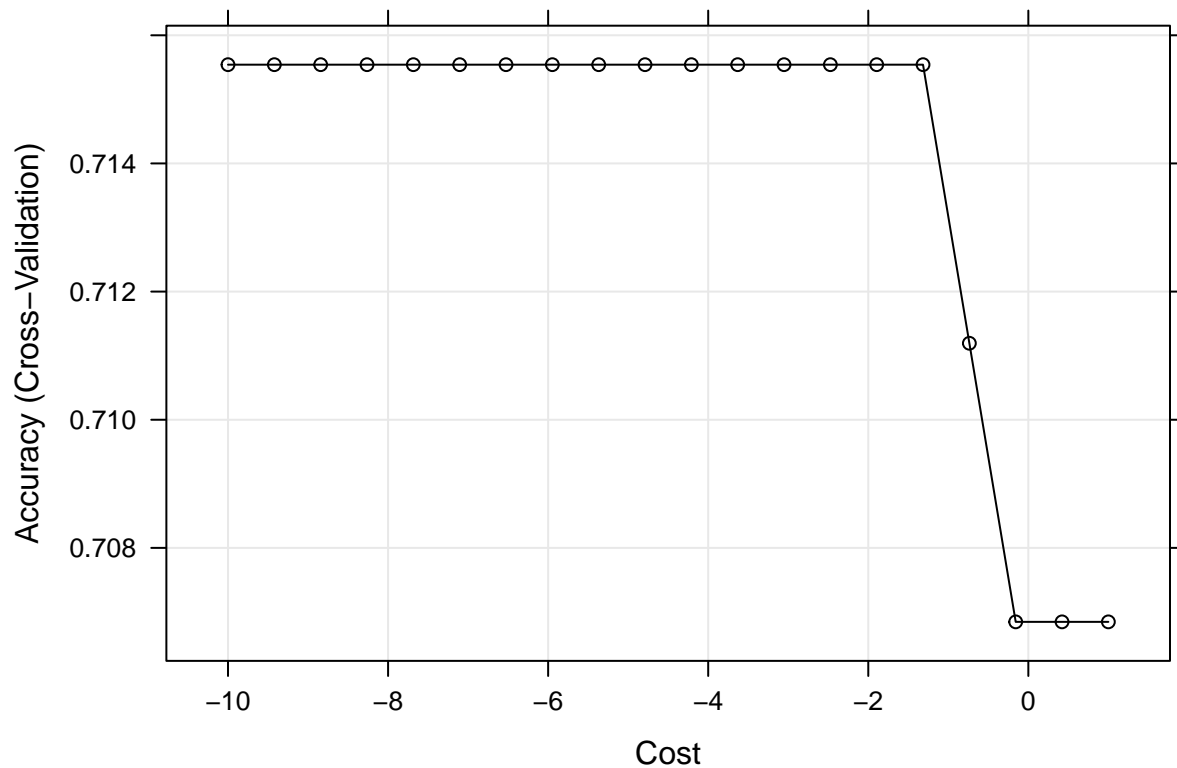
```
svm.linear.model$bestTune
```

```
##              C
## 1 4.539993e-05
```
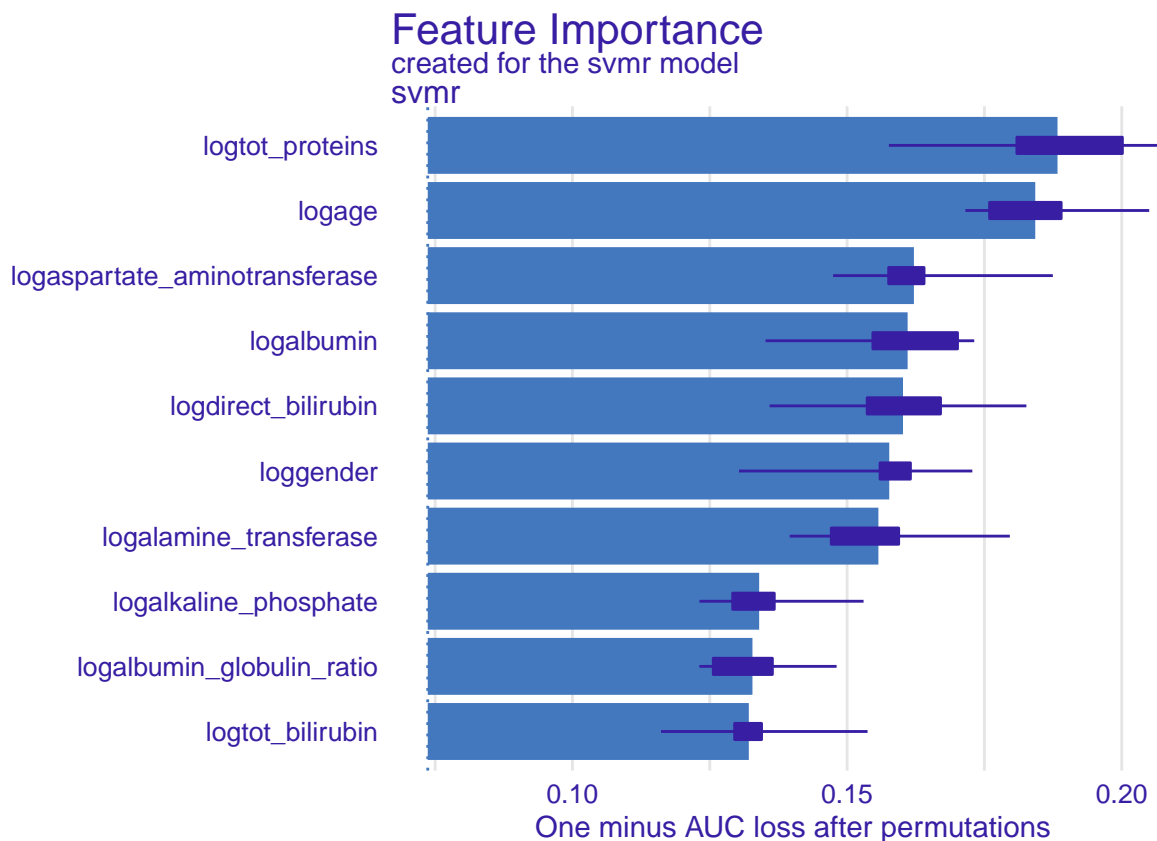
```
svm.linear.model$finalModel
```

```
## Support Vector Machine object of class "ksvm"
##
## SV type: C-svc  (classification)
##  parameter : cost C = 4.53999297624849e-05
##
## Linear (vanilla) kernel function.
##
## Number of Support Vectors : 265
##
## Objective Function Value : -0.012
## Training error : 0.284483
```

```r
ctrl <-trainControl(method = "cv")
set.seed(10)
svm.linear2.model <- train(
  outcome ~.,
  data = liver.train,
  method = "svmLinear2",
  trControl = ctrl,
  #preProcess = c("center", "scale"),
  tuneGrid =data.frame(cost =exp(seq(-10,1,len=20))),
```

```
    )

plot(svm.linear2.model, highlight = TRUE, xTrans = log)
```
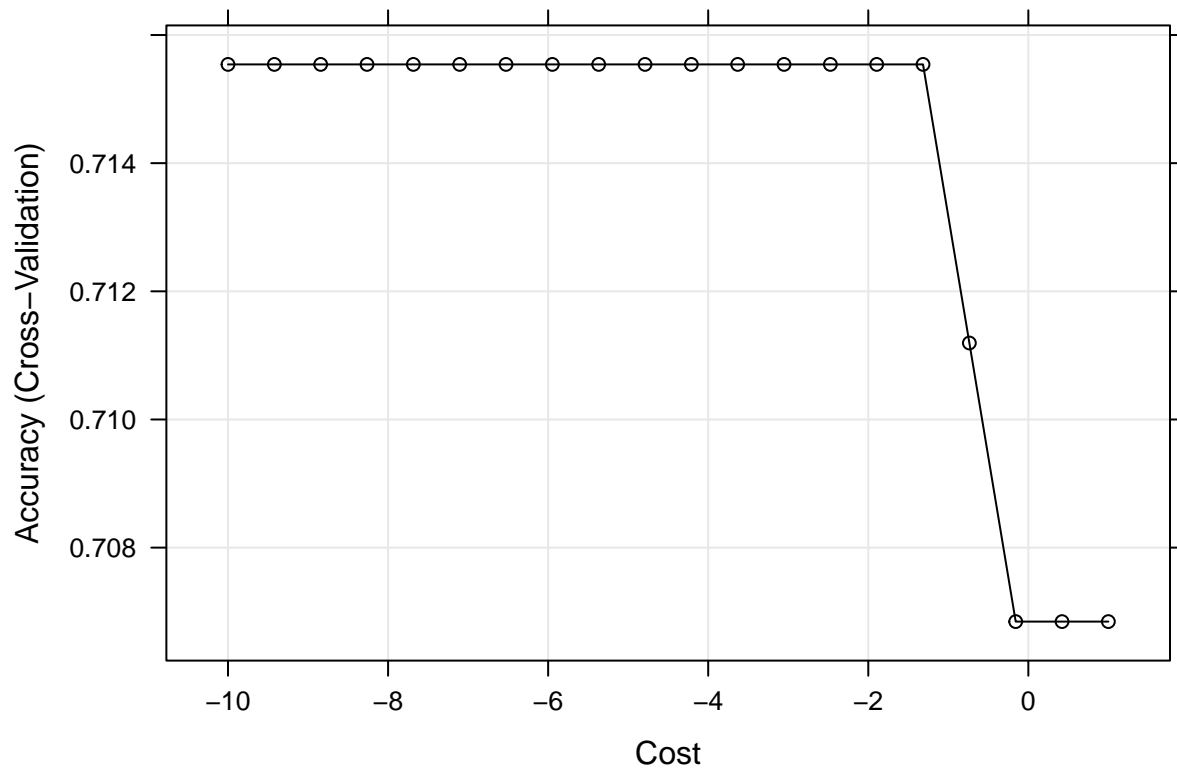


```
svm.linear2.model$bestTune
```

```
##          cost
## 1 4.539993e-05
```

```
svm.linear2.model$finalModel
```

```
##
## Call:
## svm.default(x = as.matrix(x), y = y, kernel = "linear", cost = param$cost,
##      probability = classProbs)
##
##
## Parameters:
##    SVM-Type:  C-classification
##  SVM-Kernel:  linear
##        cost:  4.539993e-05
##
## Number of Support Vectors:  265
```

```
svmr.grid <- expand.grid(C = exp(seq(-10,1,len=20)),
                         sigma = exp(seq(-8,0,len=10)))
# tunes over both cost and sigma
```

```
set.seed(10)
svm.radial.model <- train(outcome ~.,
                          data = liver.train,
                          method = "svmRadial",
                          trControl = ctrl,
                          preProcess = c("center", "scale"),
                          tuneGrid = svmr.grid,
                          prob.model = TRUE,
                          verbose=F)
```

maximum number of iterations reached 1.0162e-05 -1.0162e-05maximum number of iterations reached 2.09

```
plot(svm.radial.model, highlight = TRUE)
```
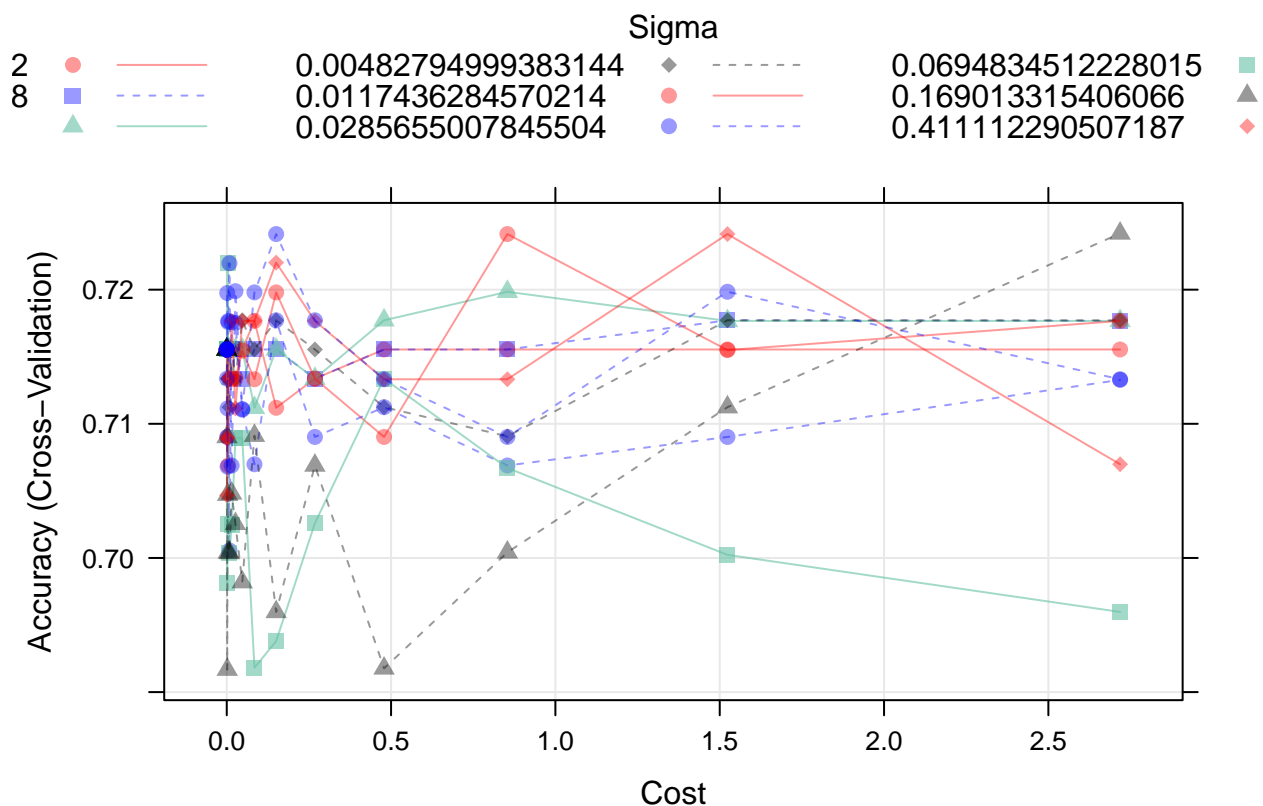


```
svm.radial.model$bestTune
```

```
##        sigma        C
## 198 0.1690133 2.718282
```

```
svm.radial.model$finalModel
```

```
## Support Vector Machine object of class "ksvm"
##
## SV type: C-svc  (classification)
##  parameter : cost C = 2.71828182845905
```

```
##
## Gaussian Radial Basis kernel function.
##  Hyperparameter : sigma =  0.169013315406066
##
## Number of Support Vectors : 313
##
## Objective Function Value : -541.8623
## Training error : 0.155172
## Probability model included.
```

```r
x_train <- as.matrix(liver.train[,1:10])

explainer_svm <- explain(svm.radial.model,
                         label = "svmr",
                         data = x_train,
                         y = as.numeric(liver_df1$outcome[rowTrain] == "yes"),
                         verbose = FALSE)
vi_svm <- model_parts(explainer_svm)
plot(vi_svm)
```

Feature Importance
created for the svmr model
svmr

One minus AUC loss after permutations

Boosting

```r
gbmA.grid <- expand.grid(n.trees = c(2000,3000,4000),
                         interaction.depth = 1:6,
```

```
                    shrinkage = c(0.001,0.003,0.005),
                    n.minobsinnode = 1)

ctrl.boost <- trainControl(method = "cv",
                    classProbs = TRUE,
                    summaryFunction = twoClassSummary)
set.seed(10)
gbmA.model <- train(outcome ~ . ,
                data = liver.train,
                tuneGrid = gbmA.grid,
                trControl = ctrl.boost,
                method = "gbm",
                distribution = "adaboost",
                metric = "ROC",
                verbose = FALSE)


ggplot(gbmA.model, highlight = TRUE)
```
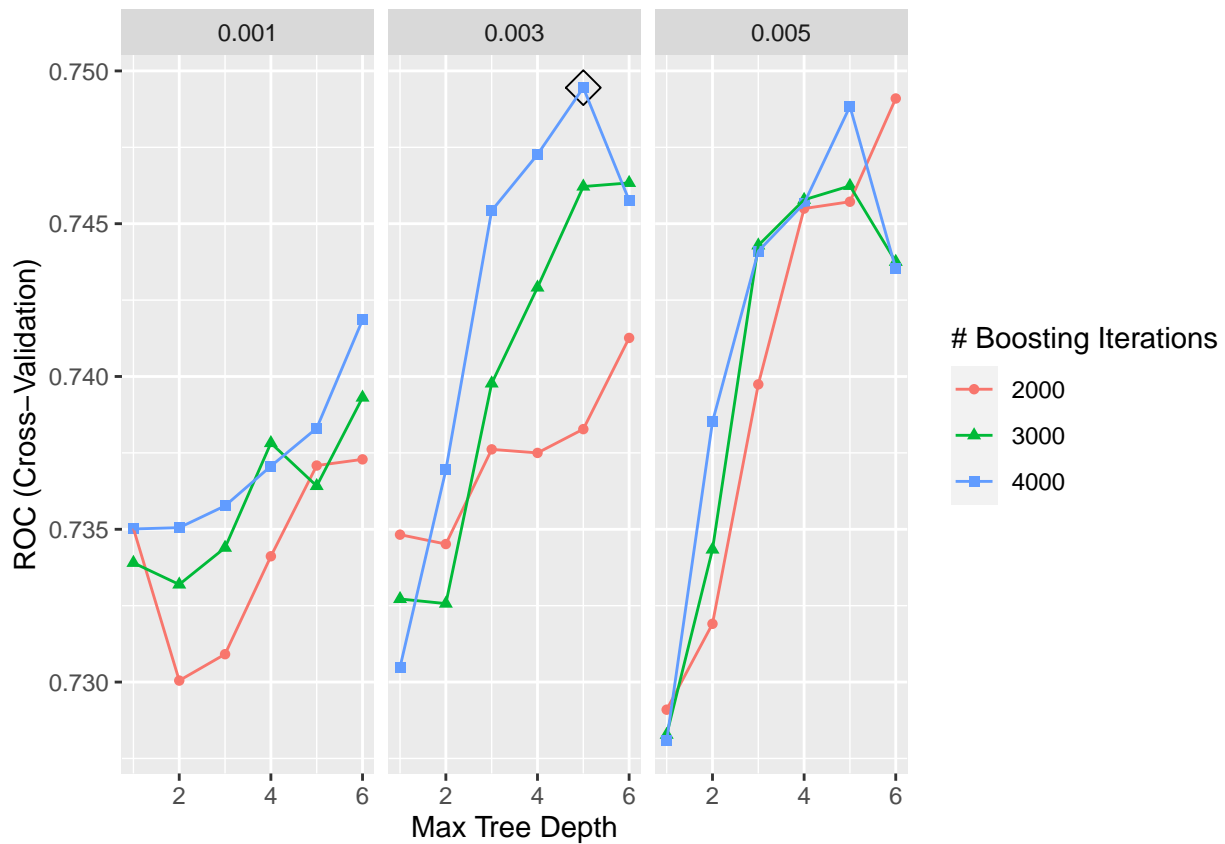


```
gbmImp <- varImp(gbmA.model, scale = FALSE)
plot(gbmImp)
```

Importance