final\_result

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## Install R packages

#install.packages("rpart")  
#install.packages("caret")  
#install.packages("e1071")  
#install.packages("randomForest")  
#install.packages("corrplot")  
#install.packages("caretEnsemble")  
#install.packages("lsr")

## Exploratory Data Analysis

options(warm=-1)  
library(rsample) # data splitting

## Warning: package 'rsample' was built under R version 3.5.3

## Loading required package: tidyr

## Warning: package 'tidyr' was built under R version 3.5.3

library(lubridate)

## Warning: package 'lubridate' was built under R version 3.5.3

##   
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':  
##   
## date

library(ggplot2) # data visualization

## Warning: package 'ggplot2' was built under R version 3.5.3

library(randomForest)

## Warning: package 'randomForest' was built under R version 3.5.3

## randomForest 4.6-14

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

##   
## Attaching package: 'randomForest'

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

library(dplyr) # data transformation

## Warning: package 'dplyr' was built under R version 3.5.3

##   
## Attaching package: 'dplyr'

## The following object is masked from 'package:randomForest':  
##   
## combine

## The following objects are masked from 'package:lubridate':  
##   
## intersect, setdiff, union

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

#library(rpart)  
library(caret) # implementing with caret

## Warning: package 'caret' was built under R version 3.5.3

## Loading required package: lattice

library(caretEnsemble)

## Warning: package 'caretEnsemble' was built under R version 3.5.3

##   
## Attaching package: 'caretEnsemble'

## The following object is masked from 'package:ggplot2':  
##   
## autoplot

library(e1071)

## Warning: package 'e1071' was built under R version 3.5.3

library(corrplot)

## Warning: package 'corrplot' was built under R version 3.5.3

## corrplot 0.84 loaded

library(unbalanced)

## Warning: package 'unbalanced' was built under R version 3.5.3

## Loading required package: mlr

## Warning: package 'mlr' was built under R version 3.5.3

## Loading required package: ParamHelpers

## Warning: package 'ParamHelpers' was built under R version 3.5.3

##   
## Attaching package: 'mlr'

## The following object is masked from 'package:e1071':  
##   
## impute

## The following object is masked from 'package:caret':  
##   
## train

## Loading required package: foreach

## Warning: package 'foreach' was built under R version 3.5.3

## Loading required package: doParallel

## Warning: package 'doParallel' was built under R version 3.5.3

## Loading required package: iterators

## Warning: package 'iterators' was built under R version 3.5.3

## Loading required package: parallel

library(mlbench)

## Warning: package 'mlbench' was built under R version 3.5.3

library(pROC)

## Warning: package 'pROC' was built under R version 3.5.3

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

##   
## Attaching package: 'pROC'

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

library(lsr)

## Warning: package 'lsr' was built under R version 3.5.2

## Includes functions to clean datasets

Read datasets from csv file

build\_clean\_dataset <- function() {  
 datasetloc = "C:/Users/abdel/Desktop/Ryerson University/capstone/capstone/R/Health\_Care\_History.csv"  
 if (file.exists(datasetloc)) {  
 alldata <- read.csv(file=datasetloc, header = T)  
 }  
 return(alldata)  
}

Convert the date to age and group them into four groups (0-25, 26-40, 41-50, 50-65, 65+)

age <- function(dob, age.day = today(), units = "years", floor = TRUE) {  
 calc.age = interval(dob, age.day) / duration(num = 1, units = units)  
 if (floor) return(as.integer(floor(calc.age)))  
   
 return(calc.age)  
}  
  
get\_age\_group <- function(a) {  
 ifelse(a<25,25, ifelse(a<40, 40, ifelse(a<50,50,65)))  
}

Group the countries of the patients based on ethnic groups

east\_europe <- c('Ukraine','Russia','Poland','Czech Republic','Hungary')  
west\_europe <- c('Austria','Belgium','France','Germany','Italy','Netherlands','Portugal','Spain','Switzerland')  
north\_europe <- c('Sweden', 'Finland', 'Denmark')  
british <- c('England','Scotland','Ireland')  
  
get\_ethnic\_group <- function(country) {  
 ifelse((country %in% east\_europe), 'east\_europe',  
 ifelse((country %in% west\_europe) ,'west\_europe',  
 ifelse((country %in% north\_europe), 'north\_europe',  
 ifelse((country %in% british), 'british',  
 country))))  
}

Read the dataset and remove patient ids from the analysis

patients <- build\_clean\_dataset()  
  
#remove the patient ids from the dataset  
patients <- patients[,-1]  
str(patients)

## 'data.frame': 2000 obs. of 13 variables:  
## $ gender : Factor w/ 2 levels "female","male": 1 1 2 2 1 1 1 1 1 2 ...  
## $ dob : Factor w/ 1877 levels "1923-10-10","1924-03-28",..: 505 1502 1811 545 327 1120 628 1378 631 1176 ...  
## $ zipcode : int 89136 94105 89127 44101 89136 94105 60612 43221 89127 43210 ...  
## $ employment\_status : Factor w/ 4 levels "employed","retired",..: 2 1 1 2 2 4 2 1 2 1 ...  
## $ education : Factor w/ 6 levels "bachelors","highschool",..: 1 5 4 1 4 2 5 1 4 2 ...  
## $ marital\_status : Factor w/ 2 levels "married","single": 1 1 1 1 1 1 1 1 2 1 ...  
## $ children : int 1 4 2 2 3 2 0 2 2 7 ...  
## $ ancestry : Factor w/ 20 levels "Austria","Belgium",..: 14 18 8 4 1 1 9 10 1 20 ...  
## $ avg\_commute : num 13.4 15.2 23.6 19.6 36.5 ...  
## $ daily\_internet\_use: num 2.53 6.77 3.63 5 7.75 3.34 6.75 3.01 4.12 3.15 ...  
## $ available\_vehicles: int 2 2 1 3 1 0 2 3 1 1 ...  
## $ military\_service : Factor w/ 2 levels "no","yes": 1 1 1 1 1 1 1 1 1 1 ...  
## $ disease : Factor w/ 13 levels "Alzheimer disease",..: 8 4 11 10 13 1 9 2 1 7 ...

summary(patients)

## gender dob zipcode employment\_status  
## female: 975 1946-02-22: 3 Min. :10001 employed :769   
## male :1025 1949-09-15: 3 1st Qu.:43221 retired :955   
## 1954-12-31: 3 Median :60612 student : 21   
## 1959-09-22: 3 Mean :63388 unemployed:255   
## 1960-08-01: 3 3rd Qu.:90008   
## 1961-04-10: 3 Max. :94110   
## (Other) :1982   
## education marital\_status children ancestry   
## bachelors :1076 married:1496 Min. :0.000 Ireland : 121   
## highschool: 459 single : 504 1st Qu.:1.000 Switzerland: 115   
## highscool : 4 Median :2.000 Sweden : 114   
## masters : 280 Mean :2.267 Portugal : 112   
## phd/md : 169 3rd Qu.:3.000 Belgium : 109   
## phD/MD : 12 Max. :7.000 Germany : 106   
## (Other) :1323   
## avg\_commute daily\_internet\_use available\_vehicles military\_service  
## Min. :-2.47 Min. :1.010 Min. :0.000 no :1817   
## 1st Qu.:23.46 1st Qu.:4.020 1st Qu.:1.000 yes: 183   
## Median :30.32 Median :5.010 Median :2.000   
## Mean :30.38 Mean :4.993 Mean :1.746   
## 3rd Qu.:37.13 3rd Qu.:5.973 3rd Qu.:3.000   
## Max. :63.73 Max. :8.820 Max. :4.000   
##   
## disease   
## Alzheimer disease:339   
## hypertension :298   
## skin cancer :233   
## kidney disease :185   
## prostate cancer :180   
## breast cancer :145   
## (Other) :620

From the summary, there are no NaN nor missing data in the dataset.

Fix the education column values by fixing the misspelled words

patients$education <- ifelse(patients$education == 'highscool', as.character('highschool'), as.character(patients$education))  
patients$education <- ifelse(as.factor(patients$education) == 'phD/MD', as.character('phd/md'), as.character(patients$education))  
patients$education <- as.factor(patients$education)

Group the ancestry countries to ethnic groups

patients$ancestry <- as.factor(get\_ethnic\_group(patients$ancestry))

Convert the date of birth into age and group them into 25 40 50 65

patients$age <- age(patients$dob)  
patients$age <- get\_age\_group(age(patients$dob))

For the analysis purposes, move each disease to separate column with binary values, where 0: patient does not has the disease and 1: patient has the disease

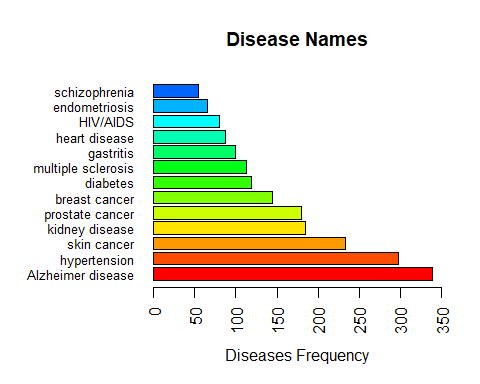
get\_binary\_value <- function(value, compare\_to) {  
 ifelse(value==compare\_to,1,0)  
}  
patients$prostate\_cancer <- get\_binary\_value(patients$disease,'prostate cancer')  
patients$skin\_cancer <- get\_binary\_value(patients$disease,'skin cancer')  
patients$breast\_cancer <- get\_binary\_value(patients$disease,'breast cancer')  
patients$hiv\_aids <- get\_binary\_value(patients$disease,'HIV/AIDS')  
patients$diabetes <- get\_binary\_value(patients$disease,'diabetes')  
patients$heart\_disease <- get\_binary\_value(patients$disease,'heart disease')  
patients$hypertension <- get\_binary\_value(patients$disease,'hypertension')  
patients$endometriosis <- get\_binary\_value(patients$disease,'endometriosis')  
patients$multiple\_sclerosis <- get\_binary\_value(patients$disease,'multiple sclerosis')  
patients$schizophrenia <- get\_binary\_value(patients$disease,'schizophrenia')  
patients$kidney\_disease <- get\_binary\_value(patients$disease,'kidney disease')  
patients$gastritis <- get\_binary\_value(patients$disease,'gastritis')  
patients$alzheimer <- get\_binary\_value(patients$disease,'Alzheimer disease')  
str(patients)

## 'data.frame': 2000 obs. of 27 variables:  
## $ gender : Factor w/ 2 levels "female","male": 1 1 2 2 1 1 1 1 1 2 ...  
## $ dob : Factor w/ 1877 levels "1923-10-10","1924-03-28",..: 505 1502 1811 545 327 1120 628 1378 631 1176 ...  
## $ zipcode : int 89136 94105 89127 44101 89136 94105 60612 43221 89127 43210 ...  
## $ employment\_status : Factor w/ 4 levels "employed","retired",..: 2 1 1 2 2 4 2 1 2 1 ...  
## $ education : Factor w/ 4 levels "bachelors","highschool",..: 1 4 3 1 3 2 4 1 3 2 ...  
## $ marital\_status : Factor w/ 2 levels "married","single": 1 1 1 1 1 1 1 1 2 1 ...  
## $ children : int 1 4 2 2 3 2 0 2 2 7 ...  
## $ ancestry : Factor w/ 4 levels "british","east\_europe",..: 4 3 4 3 4 4 2 1 4 2 ...  
## $ avg\_commute : num 13.4 15.2 23.6 19.6 36.5 ...  
## $ daily\_internet\_use: num 2.53 6.77 3.63 5 7.75 3.34 6.75 3.01 4.12 3.15 ...  
## $ available\_vehicles: int 2 2 1 3 1 0 2 3 1 1 ...  
## $ military\_service : Factor w/ 2 levels "no","yes": 1 1 1 1 1 1 1 1 1 1 ...  
## $ disease : Factor w/ 13 levels "Alzheimer disease",..: 8 4 11 10 13 1 9 2 1 7 ...  
## $ age : num 65 65 40 65 65 65 65 65 65 65 ...  
## $ prostate\_cancer : num 0 0 1 0 0 0 0 0 0 0 ...  
## $ skin\_cancer : num 0 0 0 0 1 0 0 0 0 0 ...  
## $ breast\_cancer : num 0 0 0 0 0 0 0 1 0 0 ...  
## $ hiv\_aids : num 0 0 0 0 0 0 0 0 0 1 ...  
## $ diabetes : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ heart\_disease : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ hypertension : num 1 0 0 0 0 0 0 0 0 0 ...  
## $ endometriosis : num 0 1 0 0 0 0 0 0 0 0 ...  
## $ multiple\_sclerosis: num 0 0 0 1 0 0 0 0 0 0 ...  
## $ schizophrenia : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ kidney\_disease : num 0 0 0 0 0 0 1 0 0 0 ...  
## $ gastritis : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ alzheimer : num 0 0 0 0 0 1 0 0 1 0 ...

## Use barplots for the distribution of the categorical columns

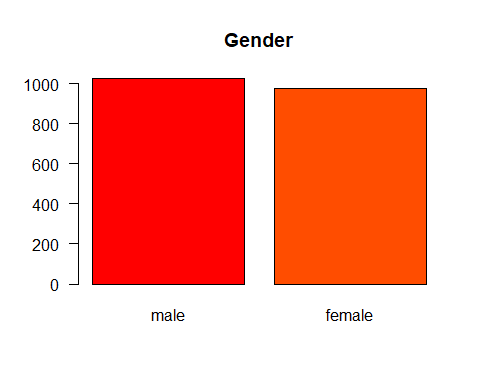
Draw a bar plot to count the total number of diseases in the dataset

par(las=2) # make label text perpendicular to axis  
par(mar=c(5,8,4,2)) # increase y-axis margin.  
  
disease\_counts <- table(patients$disease)  
barplot(sort(disease\_counts, decreasing = TRUE), main="Disease Names",   
 xlab="Diseases Frequency",   
 col=rainbow(20),  
 horiz=TRUE,  
 cex.names=0.8,  
 xlim = c(0, 350))



Observation : Male are more sick than Female

gender\_counts <- table(patients$gender)  
barplot(sort(gender\_counts, decreasing = TRUE), main="Gender",   
 col=rainbow(20), las=1)

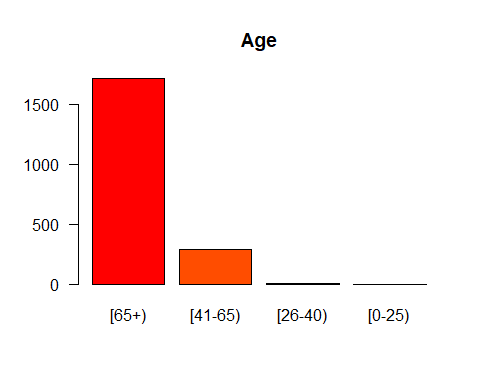


Observation : age group that are more sick

age\_breaks <- c(0,25,40,65,100)  
tags <- c("[0-25)","[26-40)", "[41-65)", "[65+)")  
age\_group\_tags <- cut(patients$age,   
 breaks=age\_breaks,   
 include.lowest=TRUE,   
 right=FALSE,   
 labels=tags)  
summary(age\_group\_tags)

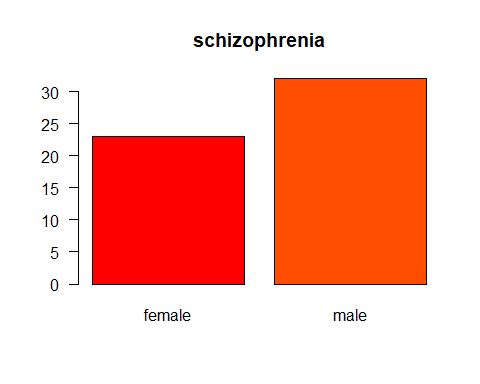
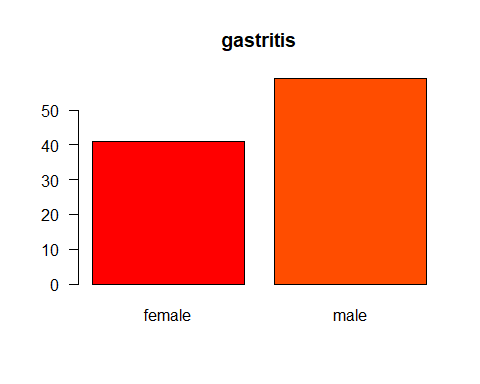
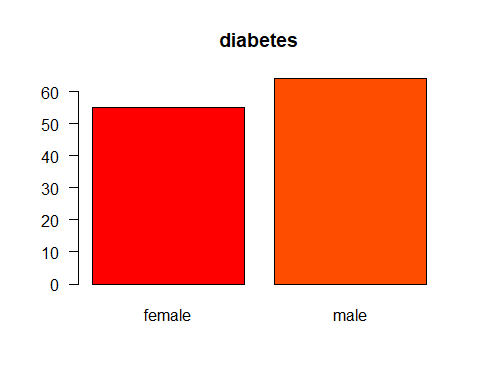
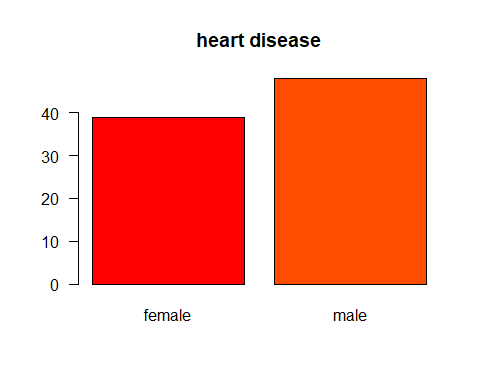
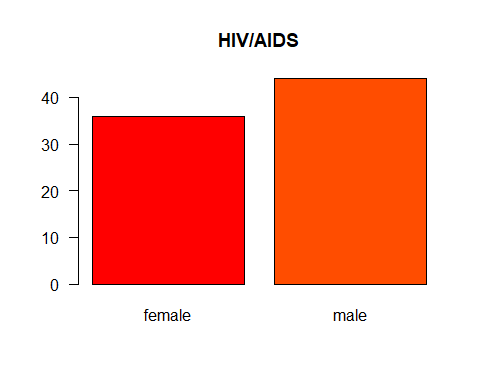
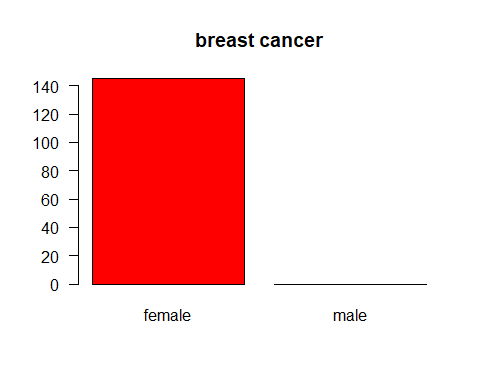
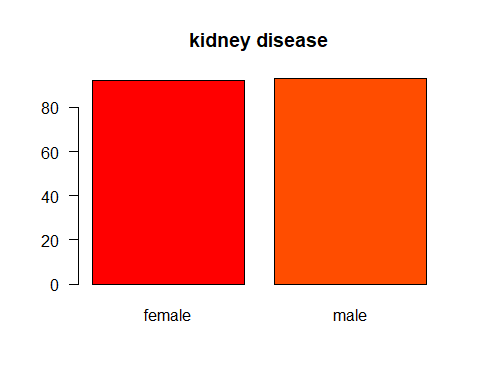
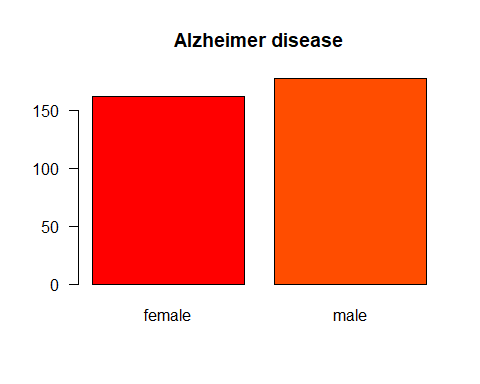
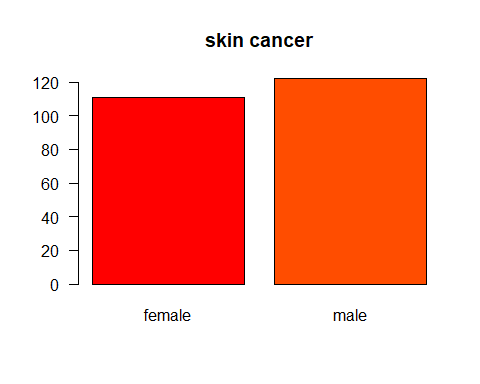
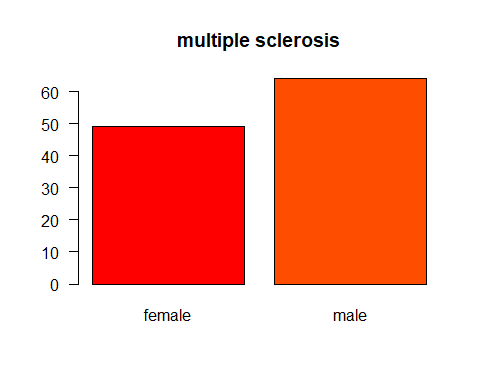
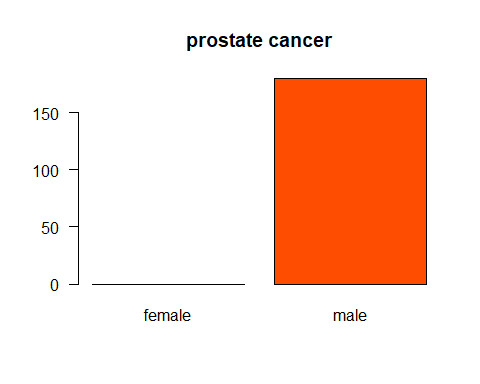
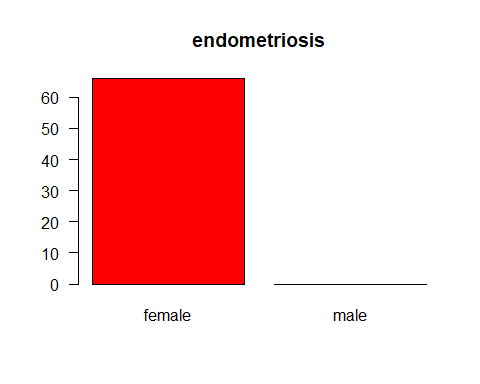
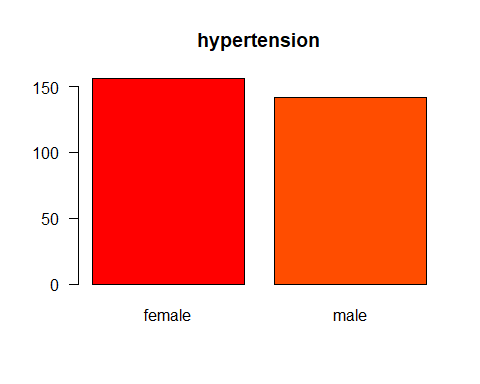
## [0-25) [26-40) [41-65) [65+)   
## 0 4 285 1711

#age\_counts <- table(patients$age)  
age\_counts <- table(age\_group\_tags)  
barplot(sort(age\_counts, decreasing = TRUE), main="Age",  
 col=rainbow(20), las=1)



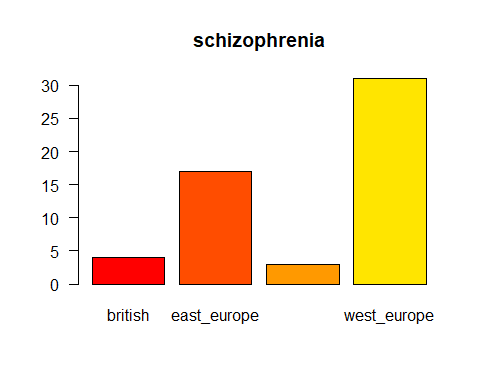
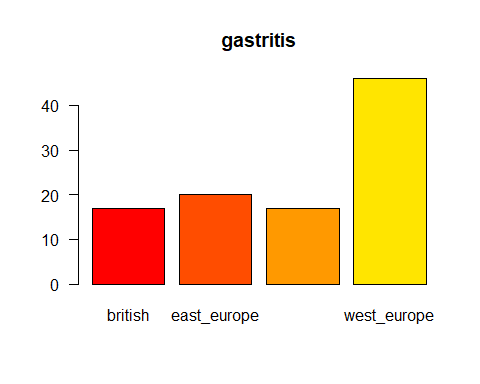
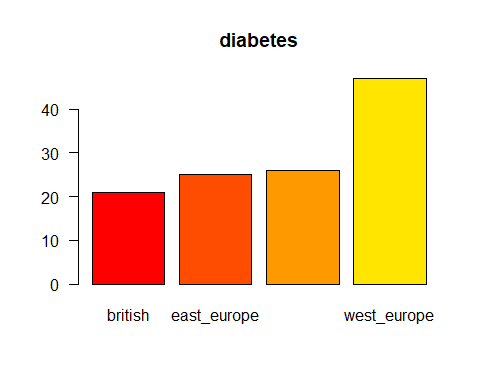
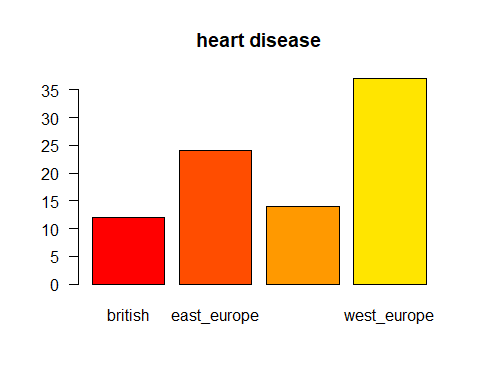
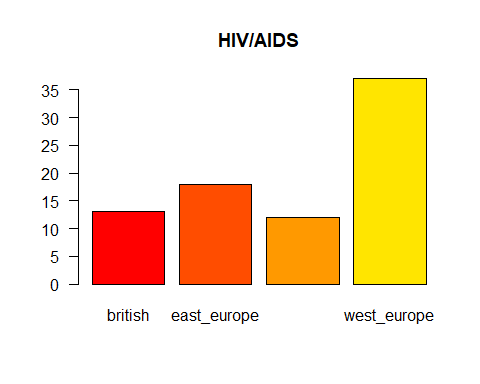
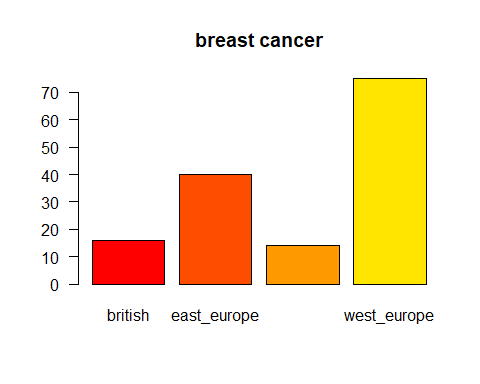
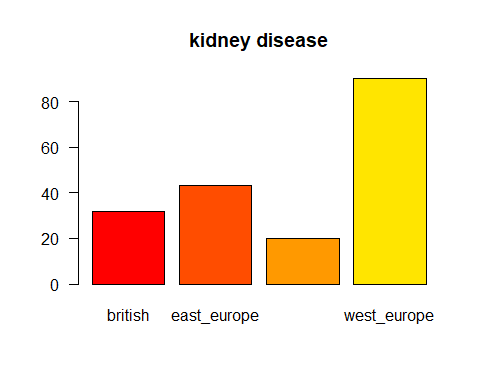
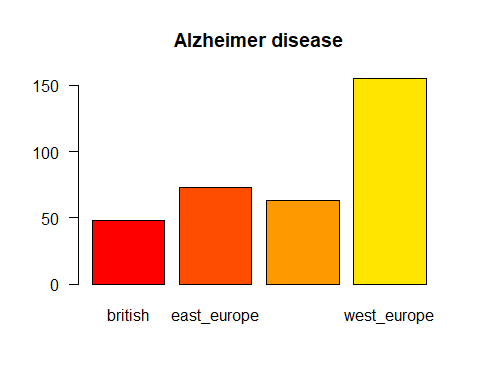
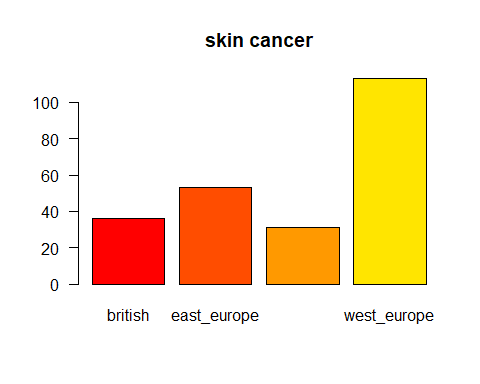
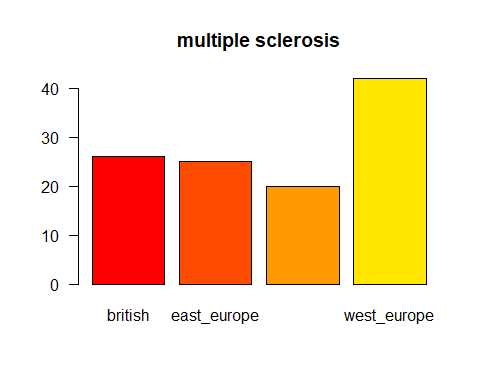
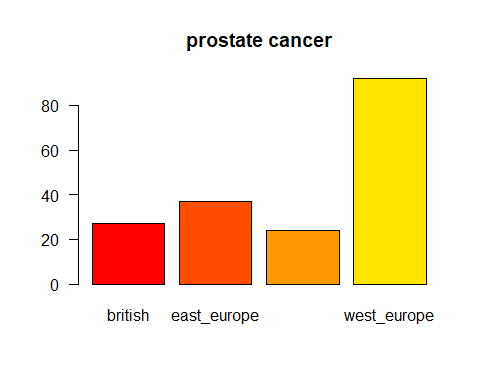
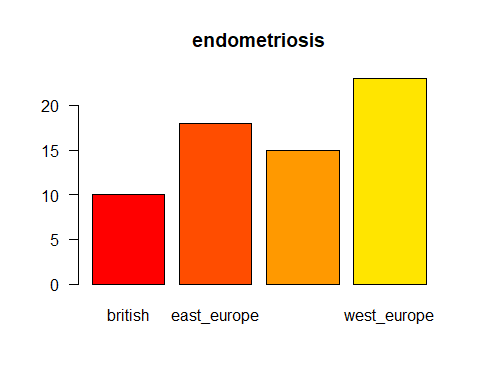
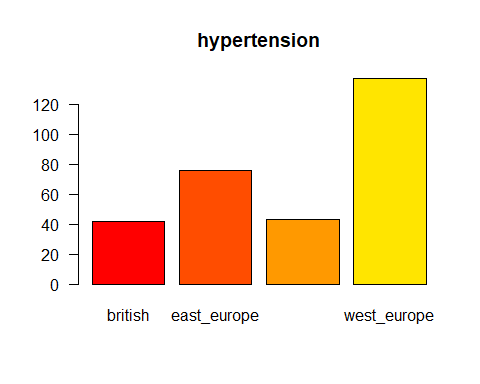
Observation : Disease and Gender distrubution

disease\_name = c(as.character(unique(patients$disease)))  
  
for (d in disease\_name) {  
 gender\_disease\_counts <- subset(patients, patients$disease == d)  
 gender\_disease\_counts <- table(gender\_disease\_counts$gender)  
 barplot(gender\_disease\_counts, main=d, col=rainbow(20), las=1)  
}



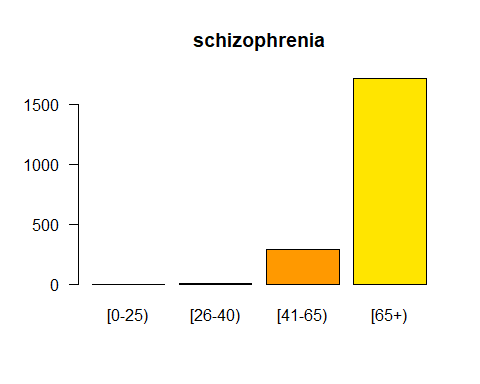
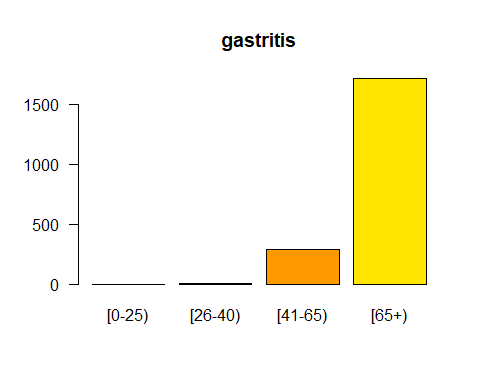
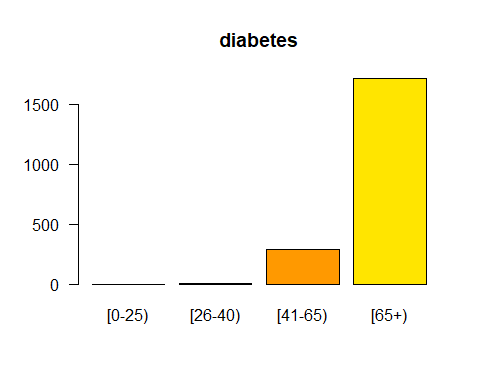
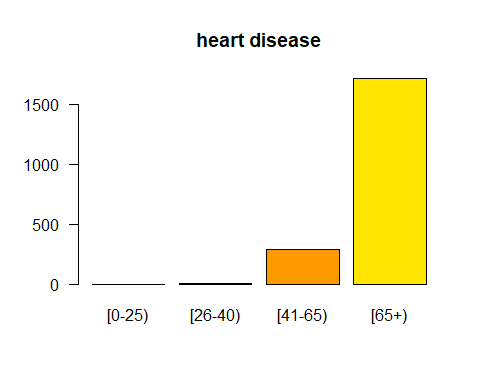
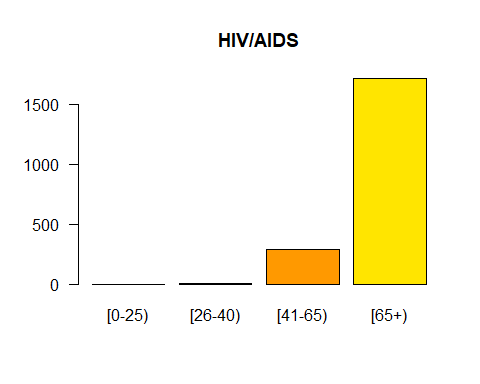
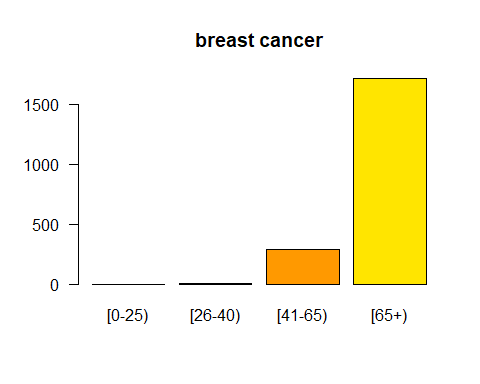
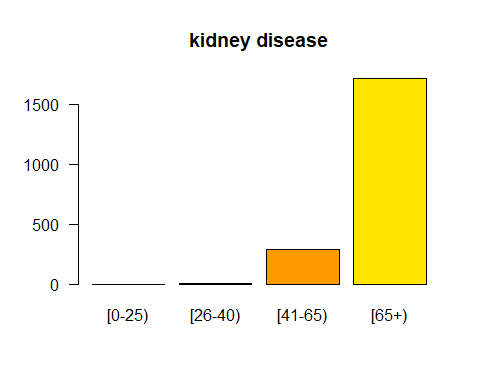
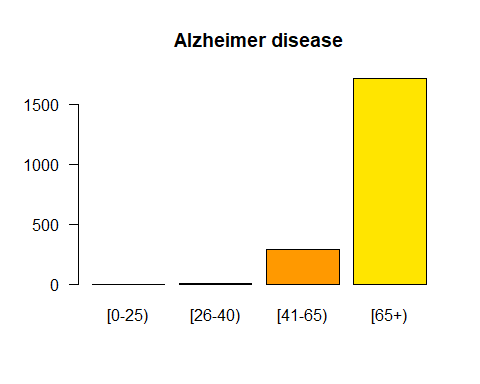
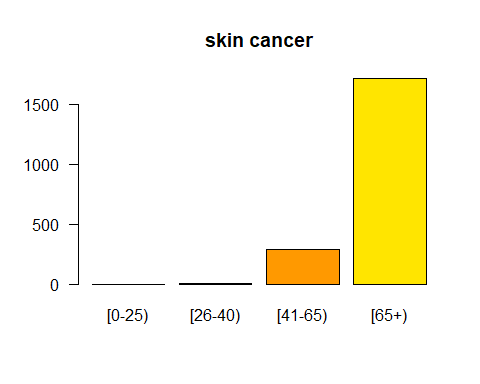
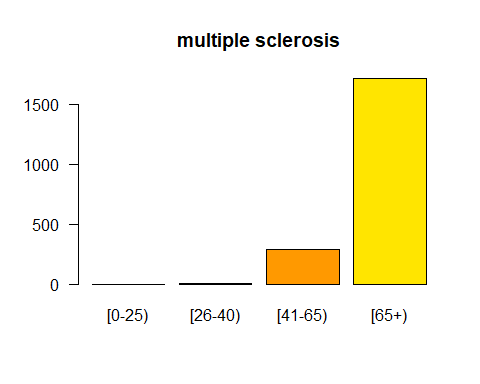
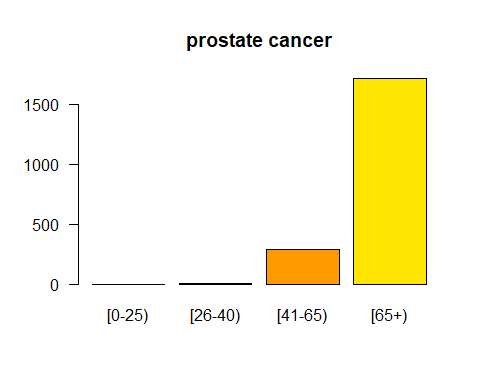
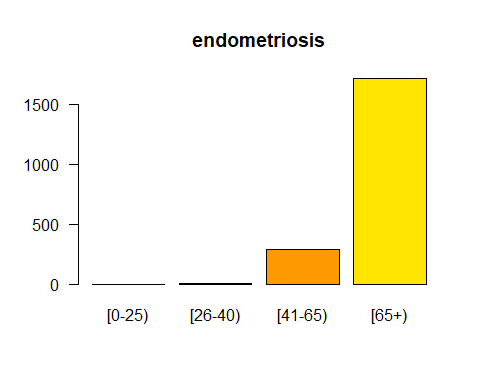
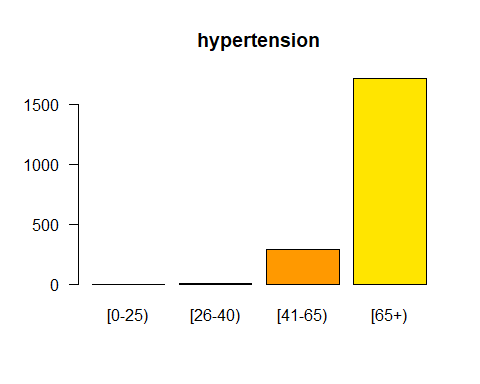
Observation : Disease and ancestry distrubution

for (d in disease\_name) {  
 ancestry\_disease\_counts <- subset(patients, patients$disease == d)  
 ancestry\_disease\_counts <- table(ancestry\_disease\_counts$ancestry)  
 barplot(ancestry\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 ## Plots for dependent variables

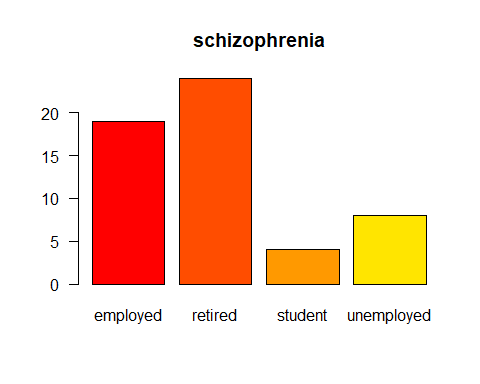
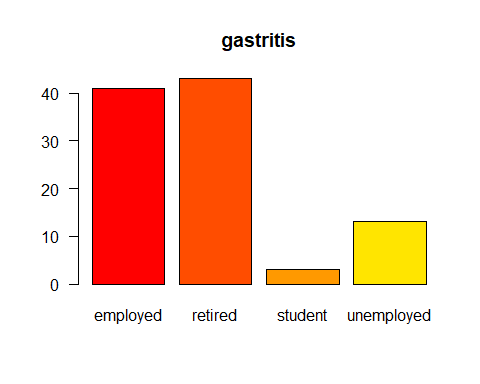
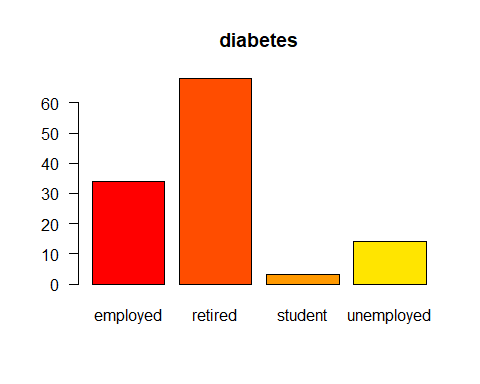
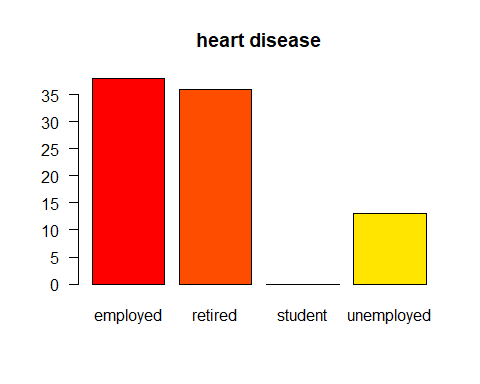
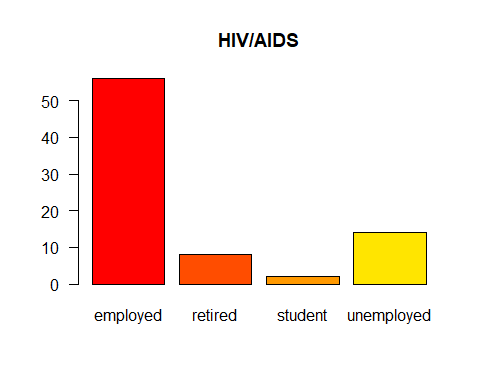
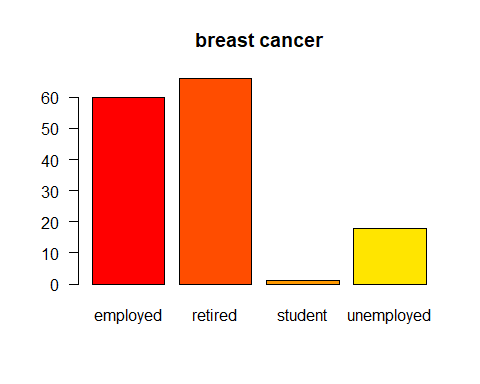
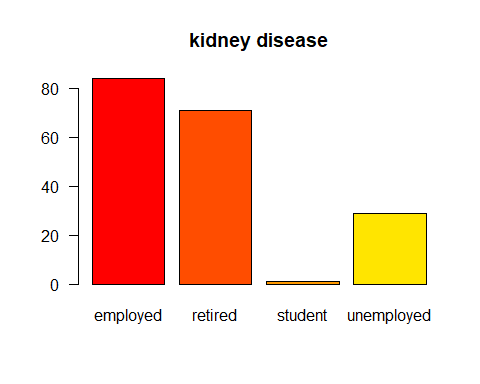
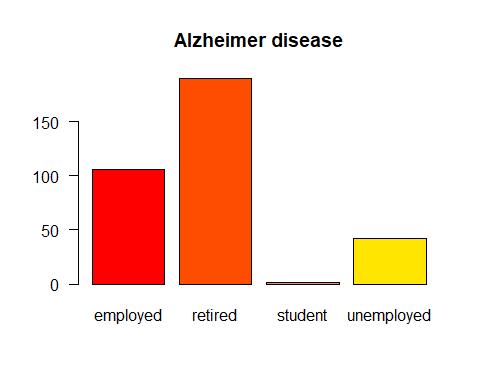
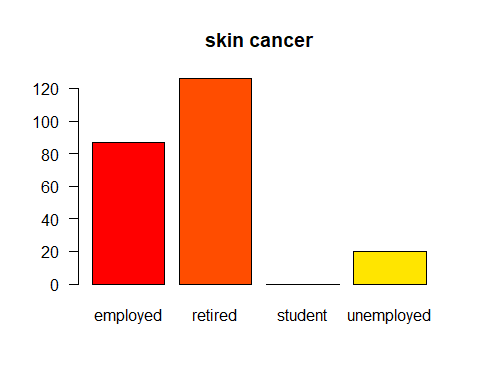
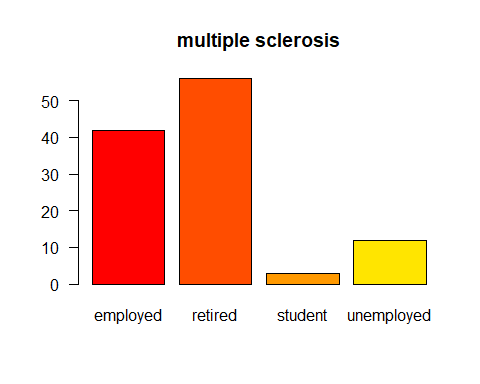
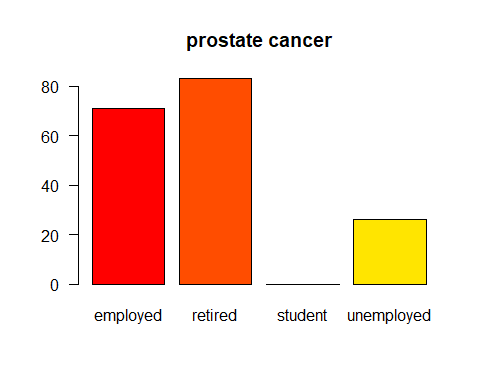
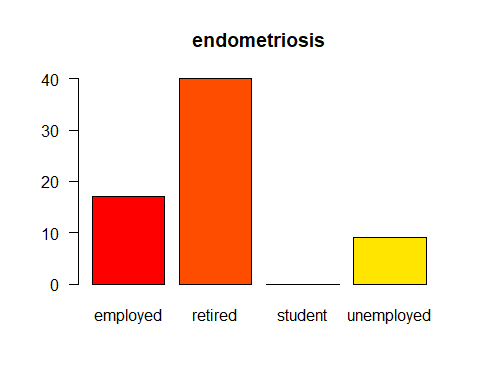
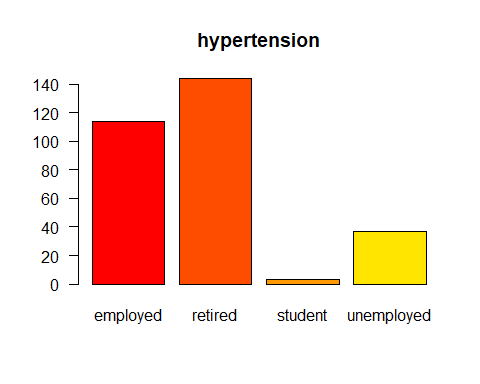
Observation : Disease and age distrubution

for (d in disease\_name) {  
 age\_disease\_counts <- subset(patients, patients$disease == d)  
 #age\_disease\_counts <- table(age\_disease\_counts$age\_group\_tags)  
 age\_disease\_counts <- table(age\_disease\_counts$age)  
 barplot(age\_counts, main=d, col=rainbow(20), las=1)  
}

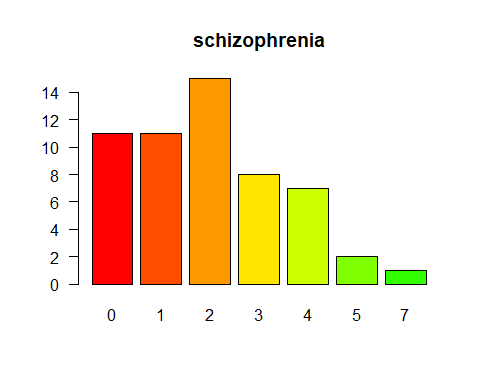
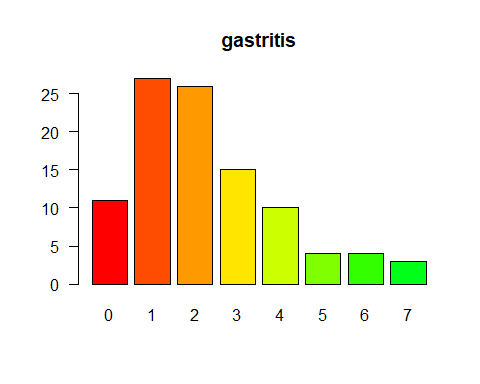
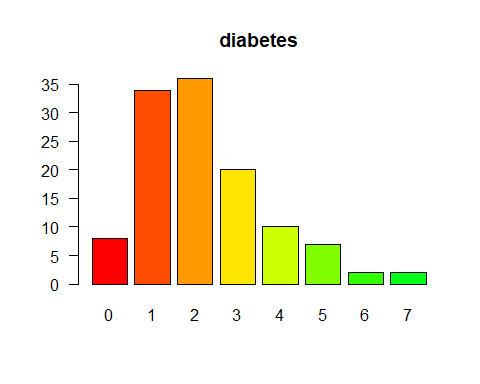
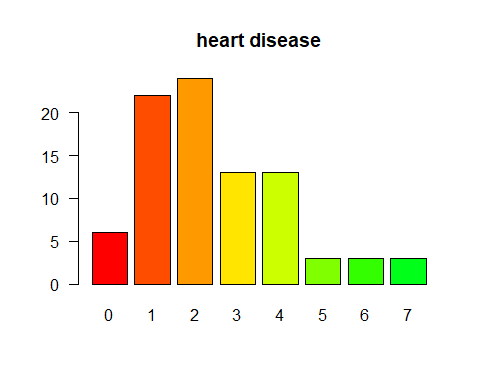
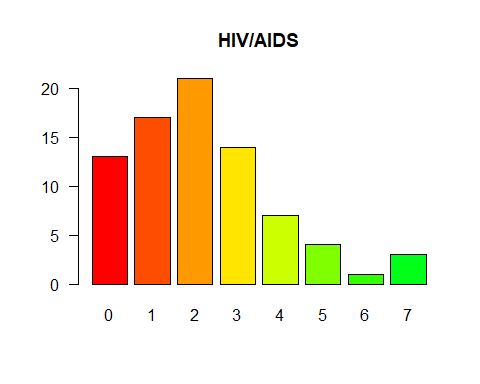
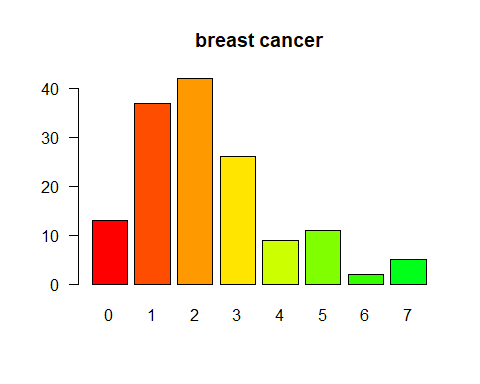
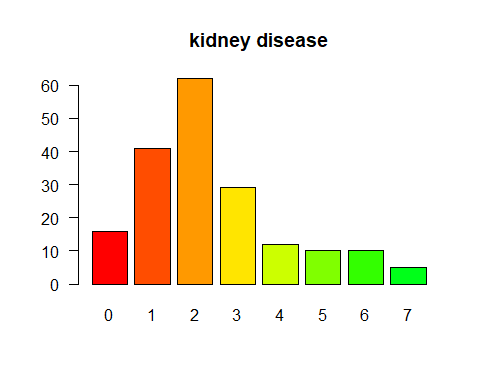
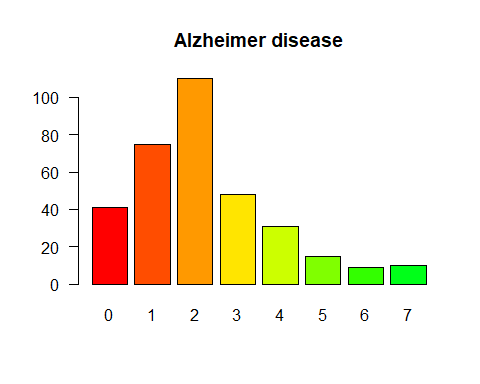
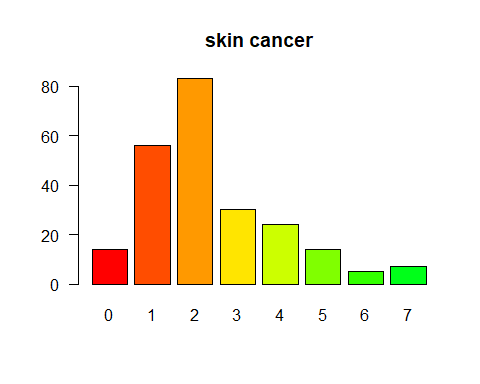
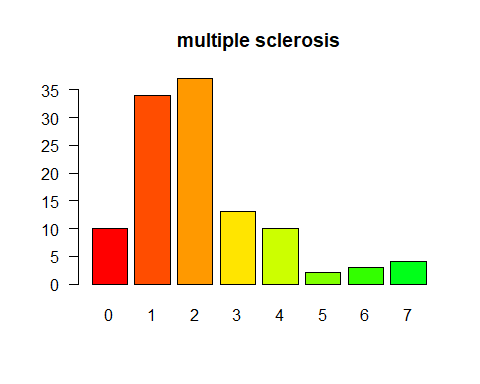
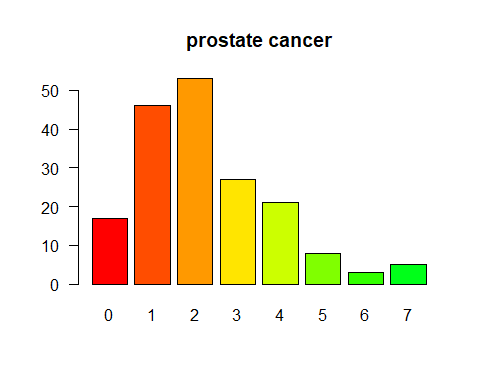
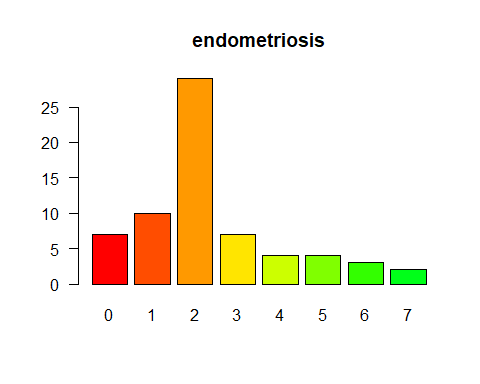
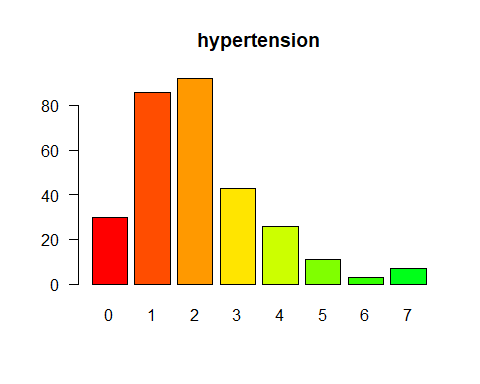


Observation : Disease and employment status distrubution

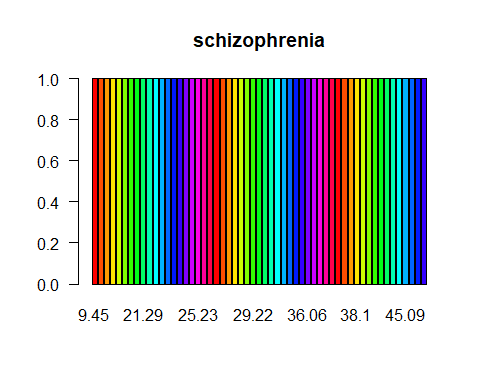
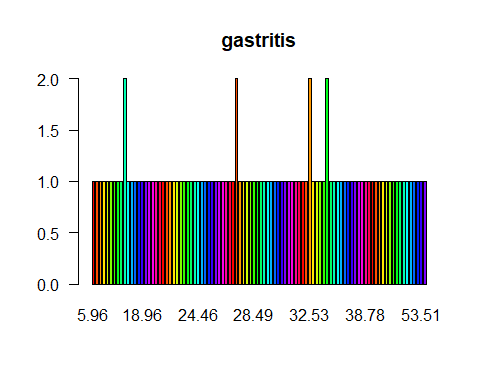
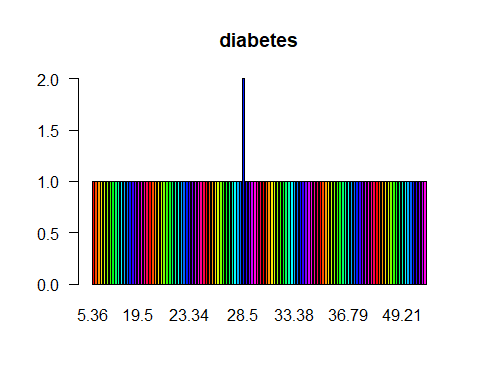
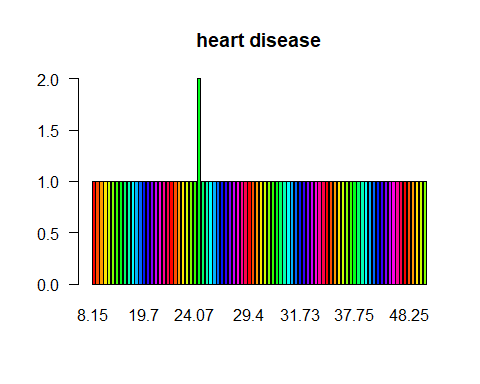
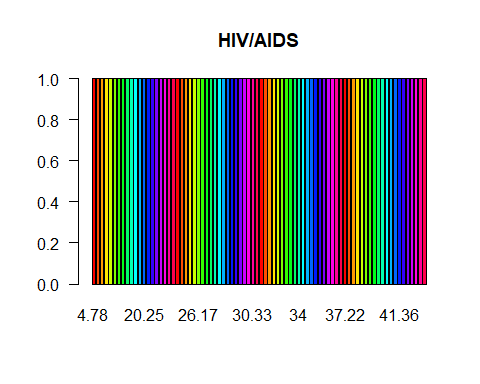
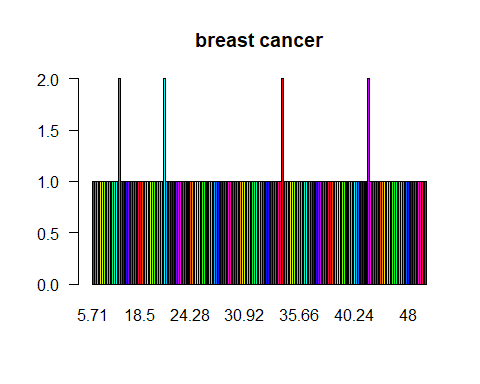
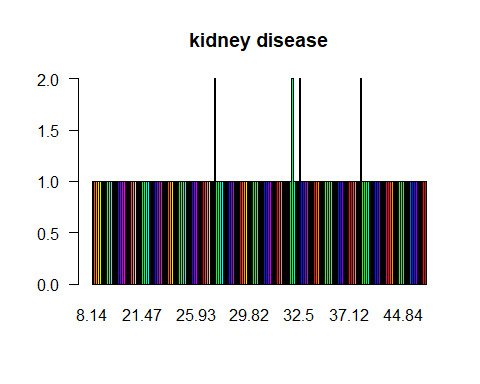
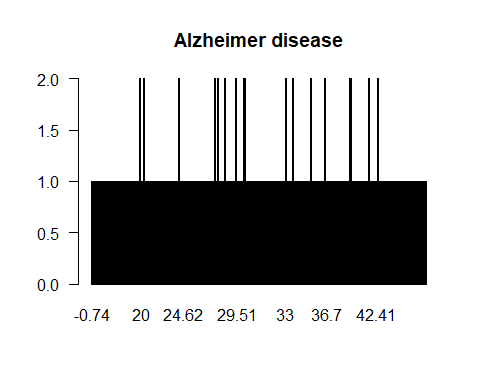
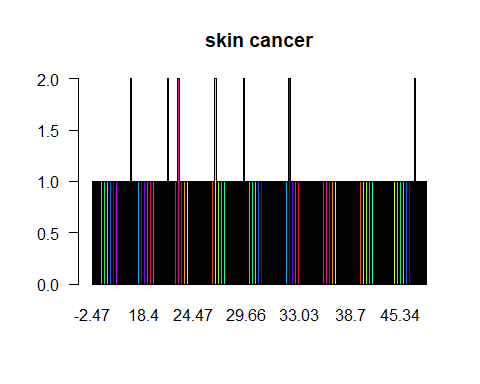
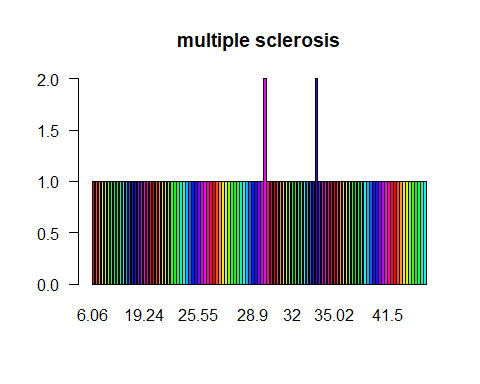
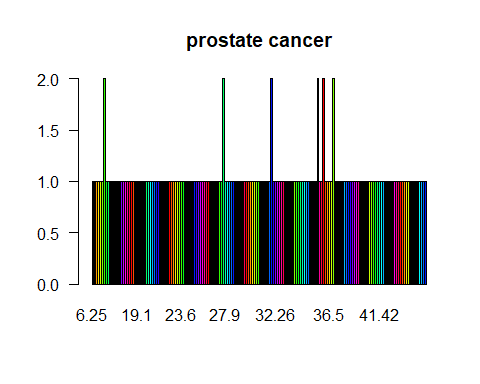
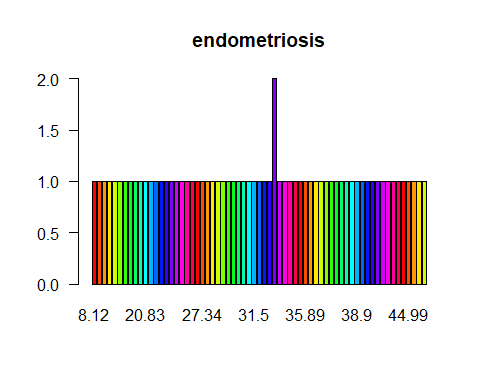
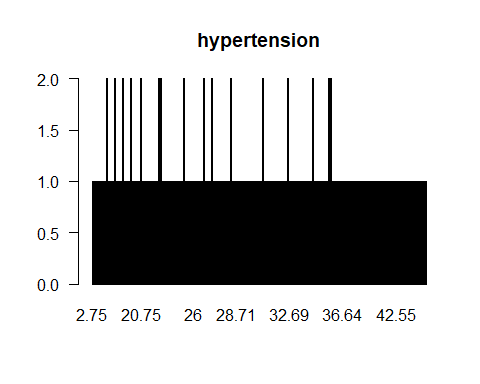
for (d in disease\_name) {  
 emp\_disease\_counts <- subset(patients, patients$disease == d)  
 emp\_disease\_counts <- table(emp\_disease\_counts$employment\_status)  
 barplot(emp\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 Observation : Disease and number of children

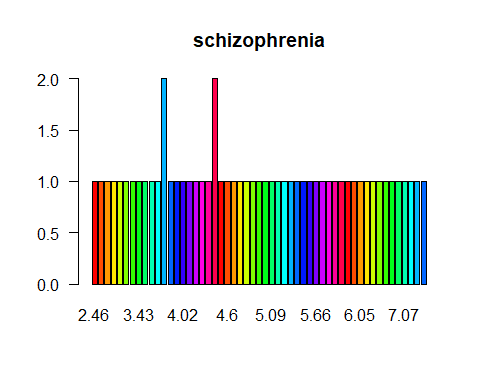
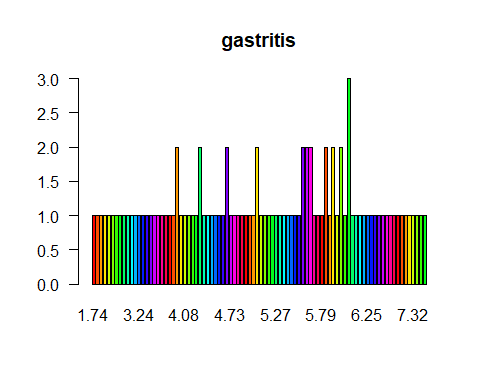
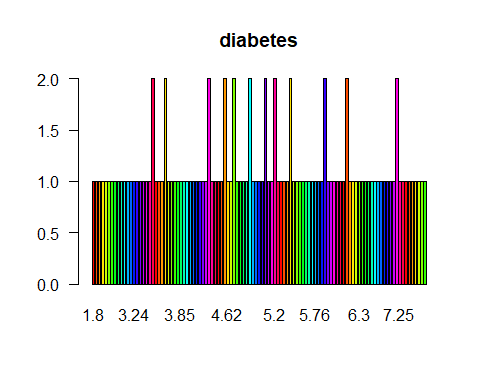
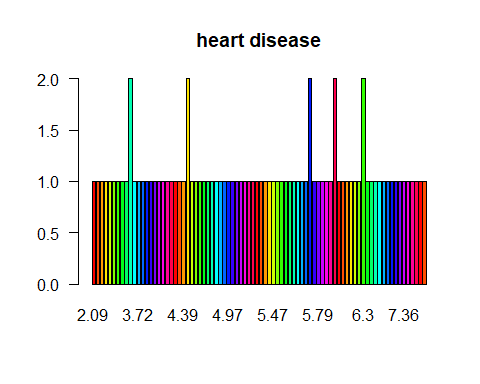
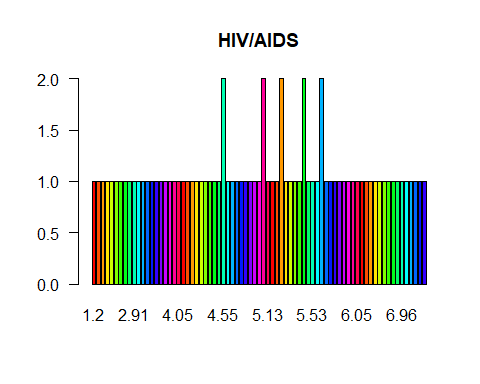
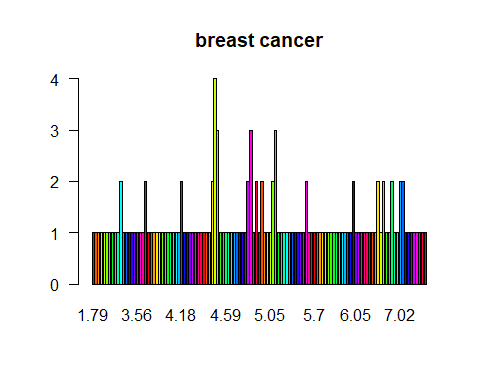
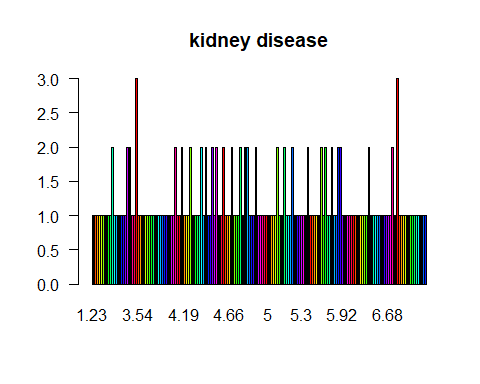
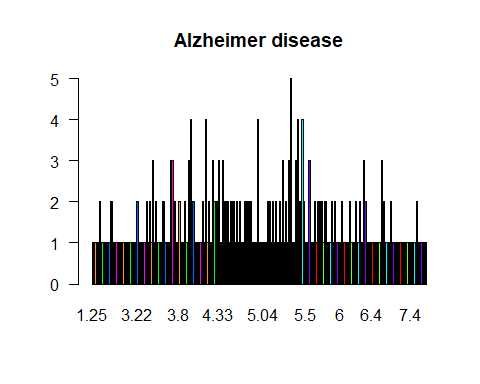
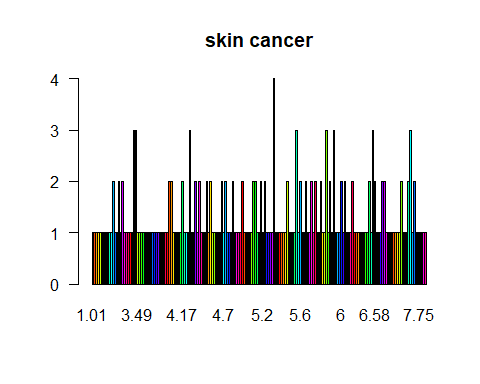
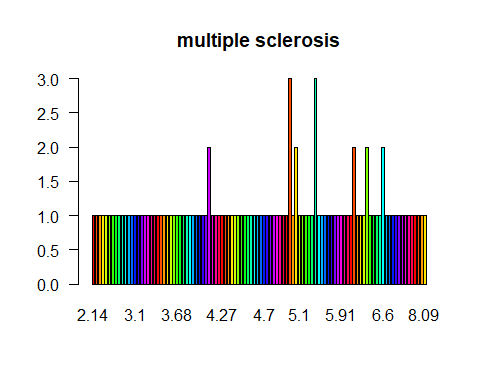
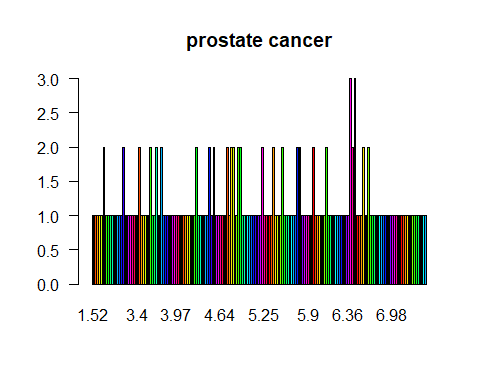
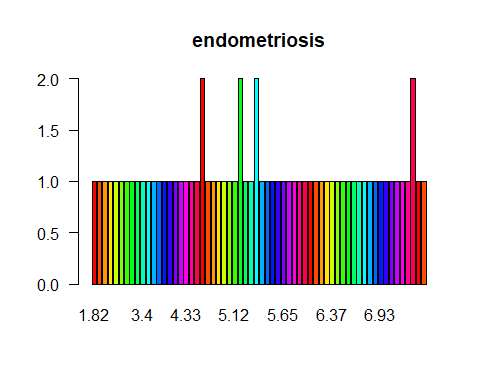
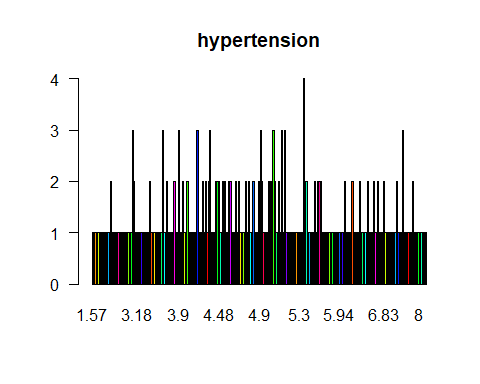
for (d in disease\_name) {  
 child\_disease\_counts <- subset(patients, patients$disease == d)  
 child\_disease\_counts <- table(child\_disease\_counts$children)  
 barplot(child\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 Observation : Disease and avg commute

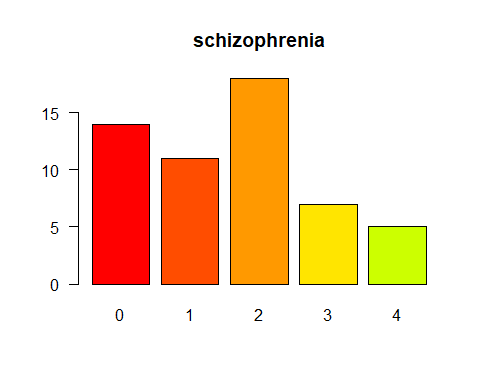
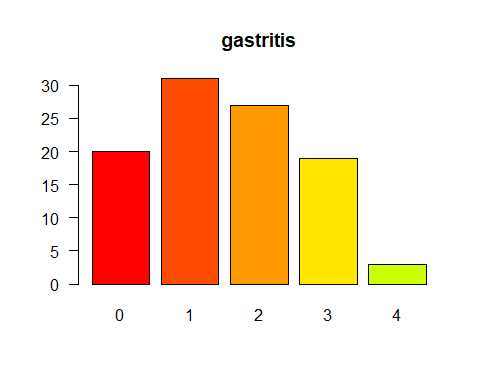
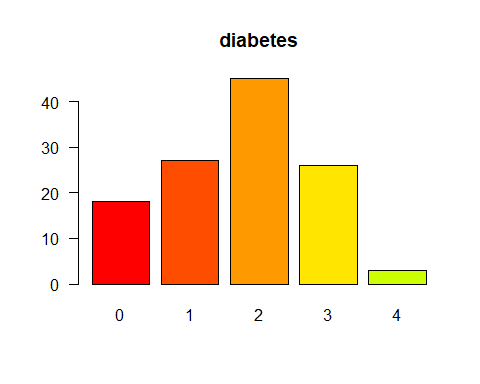
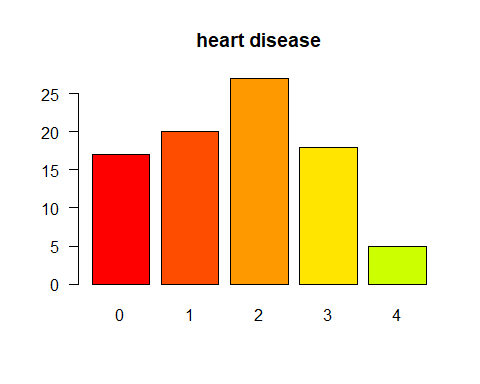
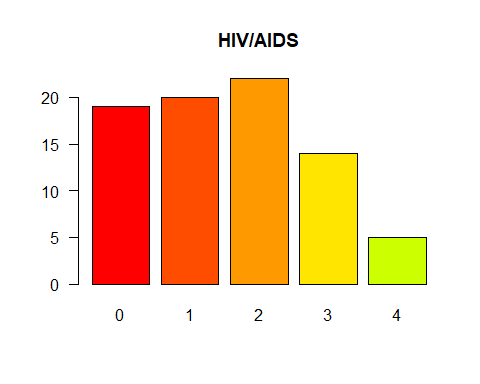
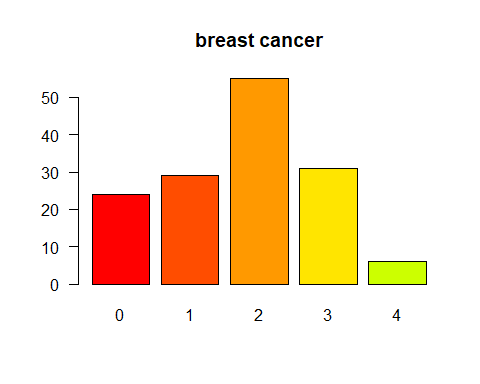
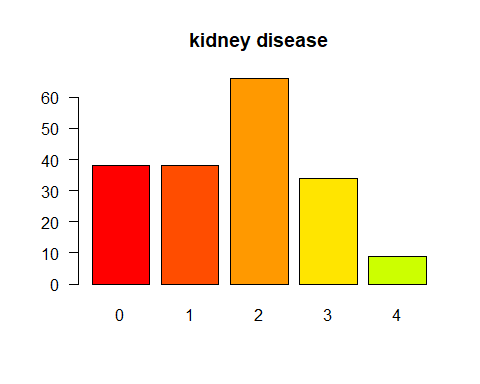
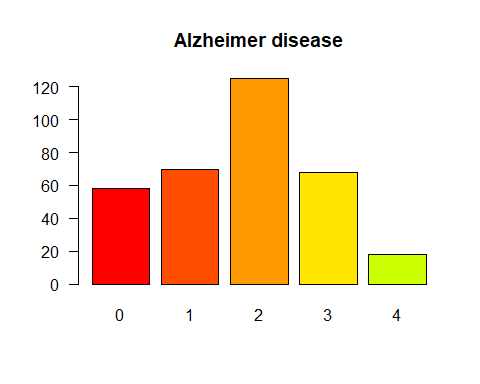
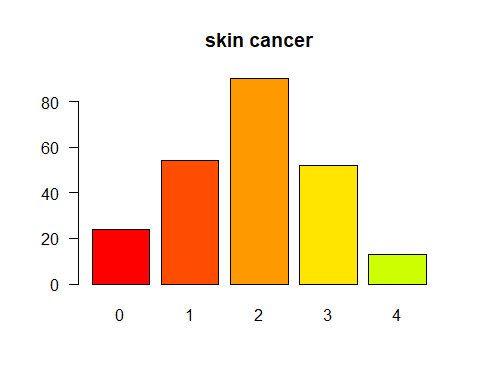
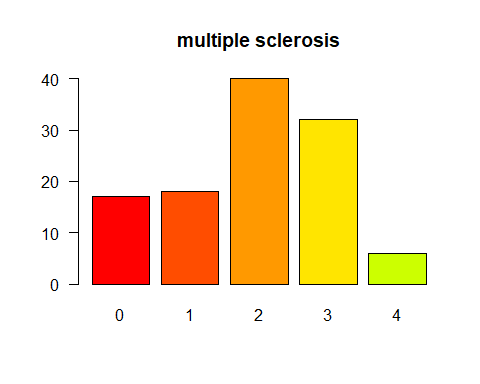
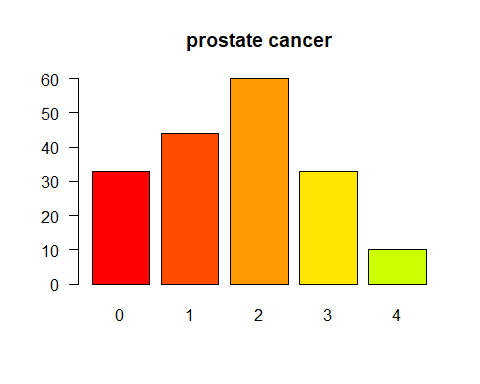
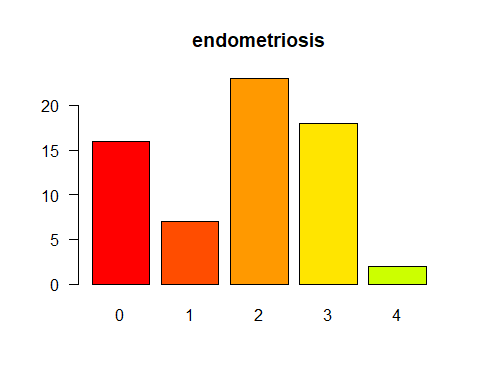
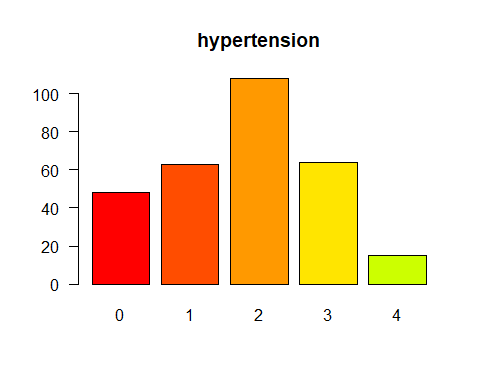
for (d in disease\_name) {  
 comm\_disease\_counts <- subset(patients, patients$disease == d)  
 comm\_disease\_counts <- table(comm\_disease\_counts$avg\_commute)  
 barplot(comm\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 Observation : Disease and daily internet use

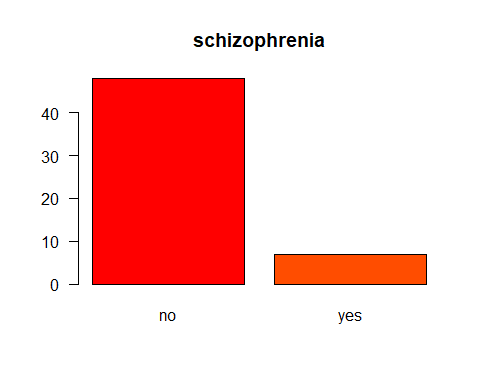
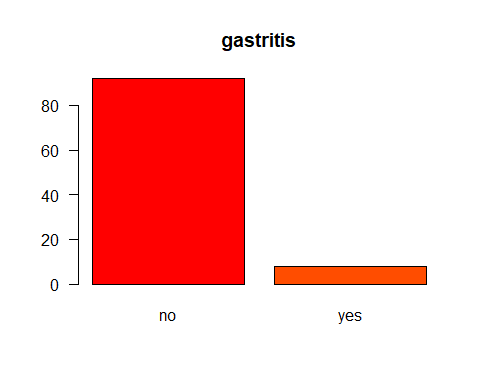
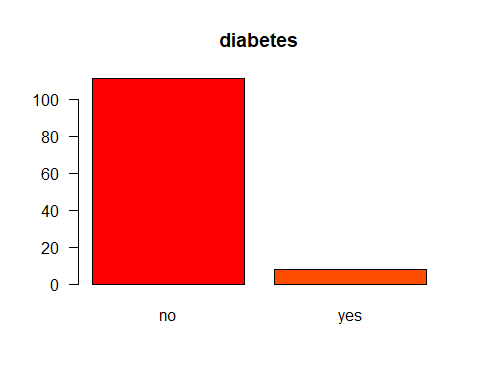
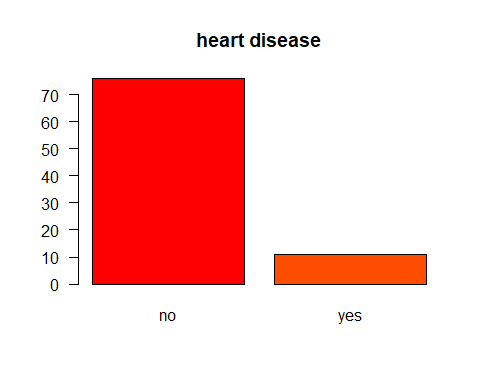
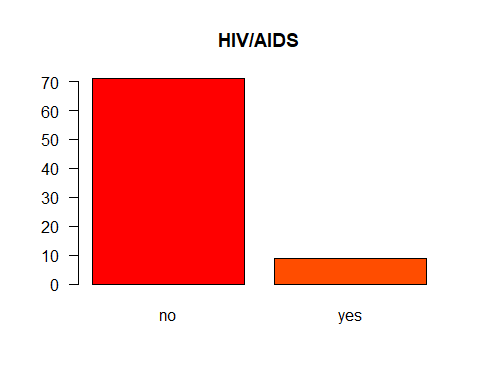
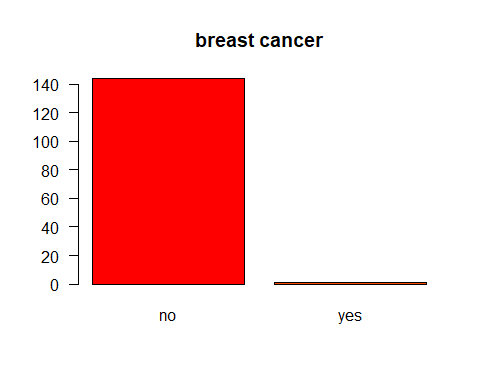
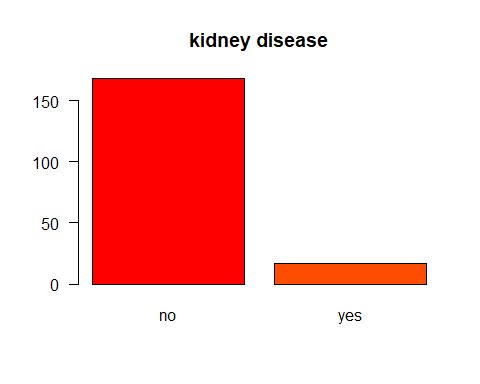
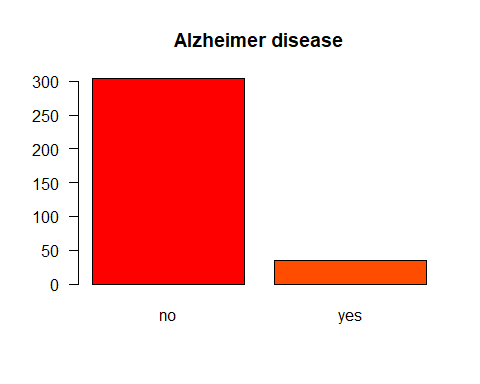
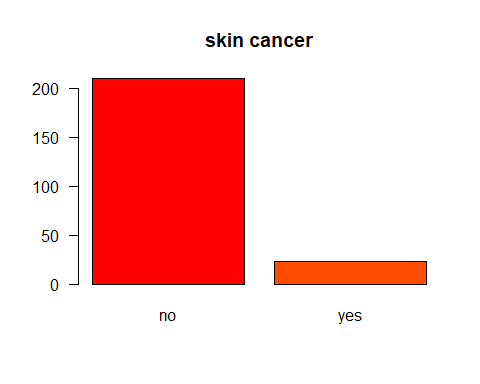
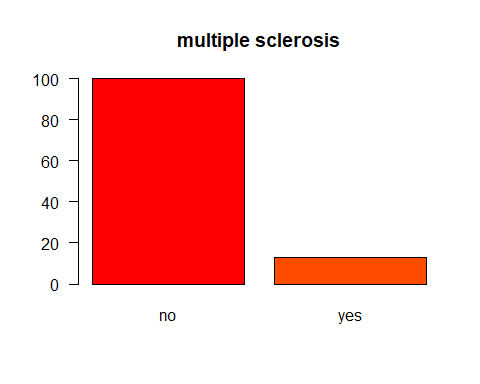
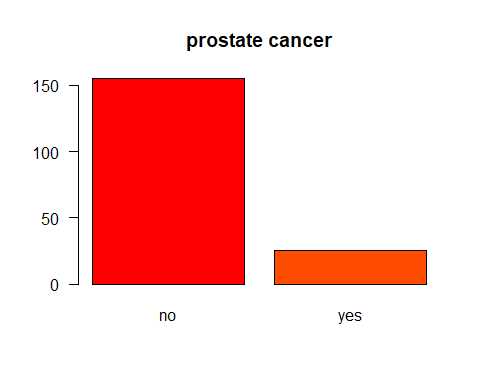
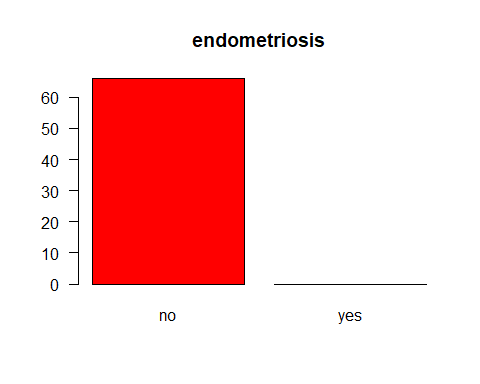
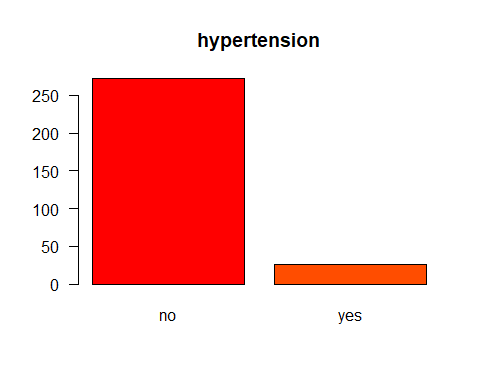
for (d in disease\_name) {  
 net\_disease\_counts <- subset(patients, patients$disease == d)  
 net\_disease\_counts <- table(net\_disease\_counts$daily\_internet\_use)  
 barplot(net\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 Observation : Disease and available vehicles

for (d in disease\_name) {  
 veh\_disease\_counts <- subset(patients, patients$disease == d)  
 veh\_disease\_counts <- table(veh\_disease\_counts$available\_vehicles)  
 barplot(veh\_disease\_counts, main=d, col=rainbow(20), las=1)  
}

 Observation : Disease and military service

for (d in disease\_name) {  
 mil\_disease\_counts <- subset(patients, patients$disease == d)  
 mil\_disease\_counts <- table(mil\_disease\_counts$military\_service)  
 barplot(mil\_disease\_counts, main=d, col=rainbow(20), las=1)  
}



## Feature Selection

Will do feature selection using two methods, Chi-squared and Cramer’s V after splitting and balancing the dataset for three diseases (alzheimer, hypertension, skin cancer)

Feature the selection Alsheimer using Chi-squared

alzheimer\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service, alzheimer)  
FeatureTrain <- sample(nrow(alzheimer\_set), 0.7\*nrow(alzheimer\_set), replace = FALSE)  
FeatureTrainSet <- alzheimer\_set[FeatureTrain,]  
FeatureValidSet <- alzheimer\_set[-FeatureTrain,]  
  
response <- as.factor(patients$alzheimer)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service)  
  
data <- ubOver(X=input, Y=response)  
alzheime\_os\_dataset <- cbind(data$X, class=data$Y)  
  
chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$gender)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$gender  
## X-squared = 0.030121, df = 1, p-value = 0.8622

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$age)

## Warning in chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$age):  
## Chi-squared approximation may be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$age  
## X-squared = 12.362, df = 3, p-value = 0.006241

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$education)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$education  
## X-squared = 1.2066, df = 3, p-value = 0.7514

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$marital\_status)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$marital\_status  
## X-squared = 8.6472, df = 1, p-value = 0.003276

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$zipcode)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$zipcode  
## X-squared = 48.141, df = 12, p-value = 2.953e-06

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$employment\_status)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$employment\_status  
## X-squared = 37.411, df = 3, p-value = 3.767e-08

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$children)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$children  
## X-squared = 17.862, df = 7, p-value = 0.01261

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$ancestry)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$ancestry  
## X-squared = 17.201, df = 3, p-value = 0.0006427

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$avg\_commute)

## Warning in chisq.test(alzheime\_os\_dataset$class,  
## alzheime\_os\_dataset$avg\_commute): Chi-squared approximation may be  
## incorrect

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$avg\_commute  
## X-squared = 2853.5, df = 1520, p-value < 2.2e-16

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(alzheime\_os\_dataset$class,  
## alzheime\_os\_dataset$daily\_internet\_use): Chi-squared approximation may be  
## incorrect

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$daily\_internet\_use  
## X-squared = 1612.5, df = 573, p-value < 2.2e-16

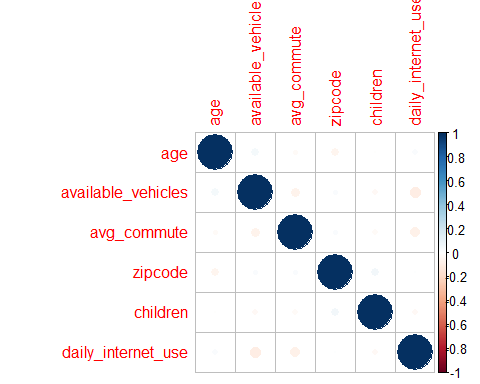
chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$available\_vehicles)

##   
## Pearson's Chi-squared test  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$available\_vehicles  
## X-squared = 8.9663, df = 4, p-value = 0.06195

chisq.test(alzheime\_os\_dataset$class, alzheime\_os\_dataset$military\_service)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: alzheime\_os\_dataset$class and alzheime\_os\_dataset$military\_service  
## X-squared = 2.1493, df = 1, p-value = 0.1426

alzheime\_os\_dataset %>%  
 filter(class == "1") %>%  
 select\_if(is.numeric) %>%  
 cor() %>%  
 corrplot::corrplot()



Feature the selection Alsheimer using Cramer’s V

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$gender)

## [1] 0.003011152

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$age)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.06100143

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$education)

## [1] 0.0190584

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$marital\_status)

## [1] 0.05101965

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$zipcode)

## [1] 0.1203814

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$employment\_status)

## [1] 0.1061203

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$children)

## [1] 0.07332783

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$ancestry)

## [1] 0.07195677

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$avg\_commute)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.9268049

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.6967101

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$available\_vehicles)

## [1] 0.05195255

cramersV(alzheime\_os\_dataset$class, alzheime\_os\_dataset$military\_service)

## [1] 0.02543615

Feature the selection Hypertension using Chi-squared

hypertension\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service, hypertension)  
FeatureTrain <- sample(nrow(hypertension\_set), 0.7\*nrow(hypertension\_set), replace = FALSE)  
FeatureTrainSet <- hypertension\_set[FeatureTrain,]  
FeatureValidSet <- hypertension\_set[-FeatureTrain,]  
  
response <- as.factor(patients$hypertension)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service)  
  
data <- ubOver(X=input, Y=response)  
hypertension\_os\_dataset <- cbind(data$X, class=data$Y)  
  
chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$gender)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$gender  
## X-squared = 6.2623, df = 1, p-value = 0.01233

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$age)

## Warning in chisq.test(hypertension\_os\_dataset$class,  
## hypertension\_os\_dataset$age): Chi-squared approximation may be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$age  
## X-squared = 35.943, df = 3, p-value = 7.698e-08

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$education)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$education  
## X-squared = 1.463, df = 3, p-value = 0.6908

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$marital\_status)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$marital\_status  
## X-squared = 1.2361, df = 1, p-value = 0.2662

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$zipcode)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$zipcode  
## X-squared = 45.135, df = 12, p-value = 9.771e-06

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$employment\_status)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$employment\_status  
## X-squared = 0.81971, df = 3, p-value = 0.8447

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$children)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$children  
## X-squared = 36.927, df = 7, p-value = 4.842e-06

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$ancestry)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$ancestry  
## X-squared = 2.9499, df = 3, p-value = 0.3994

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$avg\_commute)

## Warning in chisq.test(hypertension\_os\_dataset$class,  
## hypertension\_os\_dataset$avg\_commute): Chi-squared approximation may be  
## incorrect

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$avg\_commute  
## X-squared = 2986.7, df = 1521, p-value < 2.2e-16

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(hypertension\_os\_dataset$class,  
## hypertension\_os\_dataset$daily\_internet\_use): Chi-squared approximation may  
## be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$daily\_internet\_use  
## X-squared = 1605.3, df = 573, p-value < 2.2e-16

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$available\_vehicles)

##   
## Pearson's Chi-squared test  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$available\_vehicles  
## X-squared = 2.3449, df = 4, p-value = 0.6726

chisq.test(hypertension\_os\_dataset$class, hypertension\_os\_dataset$military\_service)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: hypertension\_os\_dataset$class and hypertension\_os\_dataset$military\_service  
## X-squared = 0.031941, df = 1, p-value = 0.8582

Feature the selection Hypertension using Cramer’s V

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$gender)

## [1] 0.04289146

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$age)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.1027576

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$education)

## [1] 0.02073145

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$marital\_status)

## [1] 0.01905634

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$zipcode)

## [1] 0.1151492

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$employment\_status)

## [1] 0.015518

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$children)

## [1] 0.1041548

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$ancestry)

## [1] 0.02943802

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$avg\_commute)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.9367087

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.6867196

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$available\_vehicles)

## [1] 0.02624609

cramersV(hypertension\_os\_dataset$class, hypertension\_os\_dataset$military\_service)

## [1] 0.003063235

Feature the selection Skin Cancer using Chi-squared

skin\_cancer\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service, skin\_cancer)  
FeatureTrain <- sample(nrow(skin\_cancer\_set), 0.7\*nrow(skin\_cancer\_set), replace = FALSE)  
FeatureTrainSet <- skin\_cancer\_set[FeatureTrain,]  
FeatureValidSet <- skin\_cancer\_set[-FeatureTrain,]  
  
response <- as.factor(patients$skin\_cancer)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service)  
  
data <- ubOver(X=input, Y=response)  
skin\_cancer\_os\_dataset <- cbind(data$X, class=data$Y)  
  
chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$gender)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$gender  
## X-squared = 0.0045293, df = 1, p-value = 0.9463

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$age)

## Warning in chisq.test(skin\_cancer\_os\_dataset$class,  
## skin\_cancer\_os\_dataset$age): Chi-squared approximation may be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$age  
## X-squared = 21.309, df = 3, p-value = 9.082e-05

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$education)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$education  
## X-squared = 1.0819, df = 3, p-value = 0.7814

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$marital\_status)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$marital\_status  
## X-squared = 1.6657, df = 1, p-value = 0.1968

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$zipcode)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$zipcode  
## X-squared = 25.445, df = 12, p-value = 0.01285

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$employment\_status)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$employment\_status  
## X-squared = 41.343, df = 3, p-value = 5.53e-09

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$children)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$children  
## X-squared = 45.33, df = 7, p-value = 1.18e-07

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$ancestry)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$ancestry  
## X-squared = 3.4317, df = 3, p-value = 0.3297

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$avg\_commute)

## Warning in chisq.test(skin\_cancer\_os\_dataset$class,  
## skin\_cancer\_os\_dataset$avg\_commute): Chi-squared approximation may be  
## incorrect

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$avg\_commute  
## X-squared = 3188, df = 1522, p-value < 2.2e-16

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(skin\_cancer\_os\_dataset$class,  
## skin\_cancer\_os\_dataset$daily\_internet\_use): Chi-squared approximation may  
## be incorrect

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$daily\_internet\_use  
## X-squared = 1911.4, df = 573, p-value < 2.2e-16

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$available\_vehicles)

##   
## Pearson's Chi-squared test  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$available\_vehicles  
## X-squared = 31.832, df = 4, p-value = 2.071e-06

chisq.test(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$military\_service)

##   
## Pearson's Chi-squared test with Yates' continuity correction  
##   
## data: skin\_cancer\_os\_dataset$class and skin\_cancer\_os\_dataset$military\_service  
## X-squared = 0.5588, df = 1, p-value = 0.4547

Feature the selection Skin Cancer using Cramer’s V

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$gender)

## [1] 0.001132097

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$age)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.07765085

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$education)

## [1] 0.01749679

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$marital\_status)

## [1] 0.02171011

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$zipcode)

## [1] 0.08485364

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$employment\_status)

## [1] 0.1081607

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$children)

## [1] 0.113256

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$ancestry)

## [1] 0.0311616

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$avg\_commute)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.9497831

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$daily\_internet\_use)

## Warning in chisq.test(...): Chi-squared approximation may be incorrect

## [1] 0.7354225

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$available\_vehicles)

## [1] 0.09490698

cramersV(skin\_cancer\_os\_dataset$class, skin\_cancer\_os\_dataset$military\_service)

## [1] 0.01257463

## Modeling

After having better understanding of the data, will begin preparing for modeling in order to predict diseases.

The process will be divided the process into steps: 1. Dealing with the Imbalance 2. Define algorithms 3. Testing algorithms

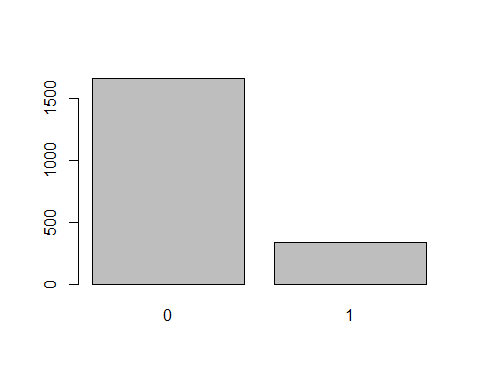
## Dealing with the Imbalance

From the exploratory analysis abovem the dependent variable is imbalanced. There are many alternatives to tackle this problem: \* Over-sampling \* Under-sampling \* Synthetic Minority Over-Sampling Technique (SMOTE) Sampling \* Cost Sensitive Learning

For this dataset, will use over-sampling and SMOTE technique.

## Patients with alzheimer

#Convert all columns to factor  
patients[] <- lapply( patients, factor) # the "[]" keeps the dataframe structure  
 col\_names <- names(patients)  
 patients[col\_names] <- lapply(patients[col\_names], factor)  
   
#See the data before balancing  
barplot(table(patients$alzheimer), xlab=colnames(patients$alzheimer))



#filter the dataset and have only alzheimer disease as the target   
alzheimer\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles,zipcode, children,military\_service, alzheimer)  
  
#The data were partitioned into a test and training set using a 70/30 split.  
train <- sample(nrow(alzheimer\_set), 0.7\*nrow(alzheimer\_set), replace = FALSE)  
 TrainSet <- alzheimer\_set[train,]  
 ValidSet <- alzheimer\_set[-train,]  
   
response <- as.factor(patients$alzheimer)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry)

### Excerice the Undersampling, oversampling, and smote against the test dataset

## Logistic Regression, Randomforest, and Naive Bayes Models

#initialize variables  
 us\_glm\_accuracy <- c()  
 us\_glm\_precision <- c()  
 us\_glm\_recall <- c()  
 us\_glm\_f1 <- c()  
   
 os\_glm\_accuracy <- c()  
 os\_glm\_precision <- c()  
 os\_glm\_recall <- c()  
 os\_glm\_f1 <- c()  
   
 smote\_glm\_accuracy <- c()  
 smote\_glm\_precision <- c()  
 smote\_glm\_recall <- c()  
 smote\_glm\_f1 <- c()  
   
 us\_rf\_accuracy <- c()  
 us\_rf\_precision <- c()  
 us\_rf\_recall <- c()  
 us\_rf\_f1 <- c()  
   
 os\_rf\_accuracy <- c()  
 os\_rf\_precision <- c()  
 os\_rf\_recall <- c()  
 os\_rf\_f1 <- c()  
   
 smote\_rf\_accuracy <- c()  
 smote\_rf\_precision <- c()  
 smote\_rf\_recall <- c()  
 smote\_rf\_f1 <- c()  
   
 us\_nb\_accuracy <- c()  
 us\_nb\_precision <- c()  
 us\_nb\_recall <- c()  
 us\_nb\_f1 <- c()  
   
 os\_nb\_accuracy <- c()  
 os\_nb\_precision <- c()  
 os\_nb\_recall <- c()  
 os\_nb\_f1 <- c()  
   
 smote\_nb\_accuracy <- c()  
 smote\_nb\_precision <- c()  
 smote\_nb\_recall <- c()  
 smote\_nb\_f1 <- c()  
   
 #use the 10-fold cross-validation and repeate the step 3 times  
 train\_control <- trainControl(method = "cv", number = 10)  
 metric <- "Accuracy"  
 mtry <- sqrt(ncol(alzheimer\_set))  
 tunegrid <- expand.grid(.mtry=mtry)

# iterate throug the sampling and model 10 times and get the mean to get the best model for the dataset prediction  
 for (i in 1:10) {  
   
 seed <- 999+i  
 set.seed(seed)  
   
 #run the undersampling  
 data <- ubUnder(X=input, Y=response, perc=40, method="percPos")  
 us\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the oversampling  
 data <- ubOver(X=input, Y=response)  
 os\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the smote  
 data <- ubSMOTE(X=input, Y=response)  
 smote\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the logistic regression for the undersampling  
 glm\_mod <- caret::train(class~.,data=us\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 us\_glm\_accuracy <- c(us\_glm\_accuracy, us\_cm$overall['Accuracy'])  
 us\_glm\_precision <- c(us\_glm\_precision, us\_cm$byClass['Precision'])  
 us\_glm\_recall <- c(us\_glm\_recall, us\_cm$byClass['Recall'])  
 us\_glm\_f1 <- c(us\_glm\_f1, us\_cm$byClass['F1'])  
   
 #run the logistic regression for the oversampling  
 glm\_mod <- caret::train(class~.,data=os\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 os\_glm\_accuracy <- c(os\_glm\_accuracy, os\_cm$overall['Accuracy'])  
 os\_glm\_precision <- c(os\_glm\_precision, os\_cm$byClass['Precision'])  
 os\_glm\_recall <- c(os\_glm\_recall, os\_cm$byClass['Recall'])  
 os\_glm\_f1 <- c(os\_glm\_f1, os\_cm$byClass['F1'])  
   
 #run the logistic regression for the smote  
 glm\_mod <- caret::train(class~.,data=smote\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 smote\_glm\_accuracy <- c(smote\_glm\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_glm\_precision <- c(smote\_glm\_precision, cm\_smote$byClass['Precision'])  
 smote\_glm\_recall <- c(smote\_glm\_recall, cm\_smote$byClass['Recall'])  
 smote\_glm\_f1 <- c(smote\_glm\_f1, cm\_smote$byClass['F1'])  
  
   
 #run the random forest for the undersampling  
 rf\_mod <- caret::train(class~., data=us\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 us\_rf\_accuracy <- c(us\_rf\_accuracy, us\_cm$overall['Accuracy'])  
 us\_rf\_precision <- c(us\_rf\_precision, us\_cm$byClass['Precision'])  
 us\_rf\_recall <- c(us\_rf\_recall, us\_cm$byClass['Recall'])  
 us\_rf\_f1 <- c(us\_rf\_f1, us\_cm$byClass['F1'])  
   
 #run the random forest for the oversampling  
 rf\_mod <- caret::train(class~., data=os\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 os\_rf\_accuracy <- c(os\_rf\_accuracy, os\_cm$overall['Accuracy'])  
 os\_rf\_precision <- c(os\_rf\_precision, os\_cm$byClass['Precision'])  
 os\_rf\_recall <- c(os\_rf\_recall, os\_cm$byClass['Recall'])  
 os\_rf\_f1 <- c(os\_rf\_f1, os\_cm$byClass['F1'])  
   
 #run the random forest for the smote  
 rf\_mod <- caret::train(class~., data=smote\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 smote\_rf\_accuracy <- c(smote\_rf\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_rf\_precision <- c(smote\_rf\_precision, cm\_smote$byClass['Precision'])  
 smote\_rf\_recall <- c(smote\_rf\_recall, cm\_smote$byClass['Recall'])  
 smote\_rf\_f1 <- c(smote\_rf\_f1, cm\_smote$byClass['F1'])  
   
 #run the naive byes for the undersampling  
 nb\_mod <- caret::train(class~., data=us\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 us\_nb\_accuracy <- c(us\_nb\_accuracy, us\_cm$overall['Accuracy'])  
 us\_nb\_precision <- c(us\_nb\_precision, us\_cm$byClass['Precision'])  
 us\_nb\_recall <- c(us\_nb\_recall, us\_cm$byClass['Recall'])  
 us\_nb\_f1 <- c(us\_nb\_f1, us\_cm$byClass['F1'])  
  
 #run the naive byes for the oversampling  
 nb\_mod <- caret::train(class~., data=os\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 os\_nb\_accuracy <- c(os\_nb\_accuracy, os\_cm$overall['Accuracy'])  
 os\_nb\_precision <- c(os\_nb\_precision, os\_cm$byClass['Precision'])  
 os\_nb\_recall <- c(os\_nb\_recall, os\_cm$byClass['Recall'])  
 os\_nb\_f1 <- c(os\_nb\_f1, os\_cm$byClass['F1'])  
   
 #run the naive byes for the smote  
 nb\_mod <- caret::train(class~., data=smote\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$alzheimer), mode='everything')  
 smote\_nb\_accuracy <- c(smote\_nb\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_nb\_precision <- c(smote\_nb\_precision, cm\_smote$byClass['Precision'])  
 smote\_nb\_recall <- c(smote\_nb\_recall, cm\_smote$byClass['Recall'])  
 smote\_nb\_f1 <- c(smote\_nb\_f1, cm\_smote$byClass['F1'])  
 }

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 6

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 65

## Warning: model fit failed for Fold03: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## 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 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## 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 34

## 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 12

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 245

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 265

## 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 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 242

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 274

## 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 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 245

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 246

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 317

## 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 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 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 315

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 171

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 297

## 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 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 280

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 313

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 158

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 243

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 256

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 292

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 327

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 228

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 285

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 98

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 208

## 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 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 154

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 197

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 242

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 245

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 290

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 317

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 57

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 182

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning: model fit failed for Fold03: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 173

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 206

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 189

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 186

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 228

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 44

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

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

## 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 25

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## 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 22

## 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 49

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## 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 18

## 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 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning: model fit failed for Fold10: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 98

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 300

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 320

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 189

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 301

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 223

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 224

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 258

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 263

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 268

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 202

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 204

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 164

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 283

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 255

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 271

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 320

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 326

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 294

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 315

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 246

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 280

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 299

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 217

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 267

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 316

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 182

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning: model fit failed for Fold03: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 133

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 197

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## 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 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## 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  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 168

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 178

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 32

## Warning: model fit failed for Fold05: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## 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 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## 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 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 224

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 262

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 308

## 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 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 242

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 255

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 263

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 269

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 294

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 321

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

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

## 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 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 215

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 238

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 261

## 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 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 215

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 235

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 266

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 271

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 321

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 199

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 308

## 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 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 79

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 300

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 32

## 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 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 279

## 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 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 315

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 324

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## 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 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 98

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## 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 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

## Warning: model fit failed for Fold03: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## 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 197

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 183

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 33

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## 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 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

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

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

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## 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 63

## Warning: model fit failed for Fold07: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## 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 55

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 248

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 300

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 277

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 287

## 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 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 142

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 215

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 268

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 283

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 142

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 248

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 238

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 143

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 251

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 306

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 262

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 274

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 324

## 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 79

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 202

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 317

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 309

## 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 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 214

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 228

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 250

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 294

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 208

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 238

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 48

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 192

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 154

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

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

## 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 39

## 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 48

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 122

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 175

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## 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 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 48

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 228

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 180

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## 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 44

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 197

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 78

## 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 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## 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 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 65

## Warning: model fit failed for Fold09: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 133

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 240

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 241

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 267

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 312

## 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 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 164

## 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 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 240

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 263

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 286

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 198

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 223

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 252

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 144

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 251

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 240

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 252

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 258

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 310

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 316

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 84

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 142

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 270

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 281

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 303

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 318

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## 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 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## 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 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 224

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 179

## 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 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## 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 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 21

## 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 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning: model fit failed for Fold05: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## 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 31

## 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 10

## 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 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 278

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 313

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 224

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 269

## 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 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 198

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 215

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 217

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 314

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 252

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 265

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 320

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 244

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 164

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 214

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 217

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 260

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 133

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 168

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 214

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 228

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 238

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 333

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 86

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 248

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 279

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 300

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 325

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 143

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 279

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## 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 19

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 144

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## 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 34

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## 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 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 183

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 223

## 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 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 206

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 189

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 84

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 197

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## 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 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 168

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 176

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## 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 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## 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 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning: model fit failed for Fold10: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 311

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 290

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 239

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 252

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 258

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 301

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 265

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 282

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 323

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 278

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 215

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 241

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 242

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 244

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 305

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 316

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 244

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 323

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 240

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 94

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 197

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 248

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 255

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 199

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 323

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## 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 122

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning: model fit failed for Fold06: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 175

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 202

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 25

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

## Warning: model fit failed for Fold03: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## 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 56

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## 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 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 142

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 143

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 261

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 279

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 284

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 285

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 213

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 318

## 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 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 253

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 312

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 329

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 255

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 114

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 117

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 245

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 297

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 234

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 323

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## 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 35

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 119

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 126

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 180

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 268

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 243

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 318

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 263

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 303

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 326

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 49

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## 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 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 221

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 230

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 163

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 186

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 65

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 188

## 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 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 103

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 233

## 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 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 57

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 86

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 130

## 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 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 60

## 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  
## observation 64

## Warning: model fit failed for Fold07: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## 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 66

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## 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 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 251

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

## 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 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 267

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 281

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 183

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 236

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 255

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 256

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 275

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 319

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 170

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 244

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 316

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 211

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 265

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 84

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 241

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 311

## 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 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 217

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 290

## 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 24

## 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 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 241

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 265

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 295

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 315

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 154

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 251

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 285

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 324

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 377

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 381

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 396

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 407

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 446

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 478

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 507

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 533

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 568

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 581

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 586

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 132

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 173

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 198

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 94

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 168

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## 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 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 205

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 232

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 206

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 49

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 235

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 122

## 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 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## 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 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 65

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 83

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning: model fit failed for Fold07: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 84

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 223

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 238

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 258

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 213

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 315

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 317

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 320

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 170

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 231

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 257

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 307

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 173

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 174

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 226

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 324

## 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 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 148

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 290

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 142

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 218

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 298

## 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 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 227

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 240

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 254

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 267

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 272

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 282

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 303

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 333

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 229

## 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 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 83

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 185

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

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

## 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 179

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 98

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 178

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 192

## Warning: model fit failed for Fold08: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 147

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 144

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 183

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 196

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 237

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Result of the alzheimer analysis

The data were partitioned into a test and training set using a 70/30 split.

df <- data.frame(us\_glm\_accuracy, os\_glm\_accuracy, smote\_glm\_accuracy, us\_rf\_accuracy, os\_rf\_accuracy, smote\_rf\_accuracy, us\_nb\_accuracy, os\_nb\_accuracy, smote\_nb\_accuracy)  
  
us\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7900000 0.8116667 0.7900000 0.7850000 0.7883333 0.7966667 0.7966667   
## Accuracy Accuracy Accuracy   
## 0.7866667 0.7816667 0.7800000

os\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.5550000 0.5500000 0.5483333 0.5266667 0.5200000 0.5450000 0.5350000   
## Accuracy Accuracy Accuracy   
## 0.5366667 0.5450000 0.5316667

smote\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.6983333 0.7033333 0.7283333 0.7100000 0.7250000 0.7016667 0.7133333   
## Accuracy Accuracy Accuracy   
## 0.7000000 0.7250000 0.7016667

us\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8116667 0.8183333 0.8150000 0.7966667 0.8300000 0.8266667 0.8033333   
## Accuracy Accuracy Accuracy   
## 0.8016667 0.8150000 0.8116667

os\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.5966667 0.5783333 0.5566667 0.5916667 0.5850000 0.5800000 0.6083333   
## Accuracy Accuracy Accuracy   
## 0.5800000 0.5700000 0.5966667

smote\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7650000 0.7683333 0.7833333 0.7483333 0.7766667 0.7433333 0.7750000   
## Accuracy Accuracy Accuracy   
## 0.7500000 0.7683333 0.7666667

us\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.6866667 0.8366667 0.8283333 0.8300000 0.7966667 0.8366667 0.6716667   
## Accuracy Accuracy Accuracy   
## 0.8350000 0.8366667 0.7966667

os\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.1866667 0.2233333 0.2266667 0.2350000 0.2783333 0.2150000 0.1983333   
## Accuracy Accuracy Accuracy   
## 0.2383333 0.3133333 0.1983333

smote\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7500000 0.7600000 0.7783333 0.7950000 0.7850000 0.6033333 0.7483333   
## Accuracy Accuracy Accuracy   
## 0.6566667 0.8066667 0.7433333

us\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8443223 0.8406305 0.8405797 0.8409506 0.8415301 0.8429603 0.8442029   
## Precision Precision Precision   
## 0.8488806 0.8391225 0.8464419

os\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8827362 0.8625000 0.8713826 0.8784722 0.8689655 0.8566978 0.8655738   
## Precision Precision Precision   
## 0.8758389 0.8459215 0.8646865

smote\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8350731 0.8333333 0.8410463 0.8374486 0.8363273 0.8414376 0.8353659   
## Precision Precision Precision   
## 0.8340249 0.8404040 0.8357588

us\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8394415 0.8441331 0.8447972 0.8467153 0.8436426 0.8442907 0.8529412   
## Precision Precision Precision   
## 0.8450450 0.8484848 0.8454707

os\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8939394 0.8952381 0.8907285 0.9028213 0.8940810 0.9058442 0.8985075   
## Precision Precision Precision   
## 0.8930818 0.8935484 0.9062500

smote\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8412098 0.8405253 0.8444444 0.8368522 0.8445693 0.8411765 0.8391867   
## Precision Precision Precision   
## 0.8397683 0.8392523 0.8376866

us\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8536036 0.8366667 0.8375635 0.8378378 0.8333333 0.8366667 0.8588235   
## Precision Precision Precision   
## 0.8375209 0.8366667 0.8442029

os\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 1.0000000 0.9285714 0.9318182 0.8909091 0.9259259 0.9696970 1.0000000   
## Precision Precision Precision   
## 0.8947368 0.8813559 1.0000000

smote\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8333333 0.8314815 0.8348457 0.8365897 0.8348294 0.8419689 0.8342857   
## Precision Precision Precision   
## 0.8303571 0.8327586 0.8307985

us\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9183267 0.9561753 0.9243028 0.9163347 0.9203187 0.9302789 0.9282869   
## Recall Recall Recall   
## 0.9063745 0.9143426 0.9003984

os\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.5398406 0.5498008 0.5398406 0.5039841 0.5019920 0.5478088 0.5258964   
## Recall Recall Recall   
## 0.5199203 0.5577689 0.5219124

smote\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.7968127 0.8067729 0.8326693 0.8107570 0.8346614 0.7928287 0.8187251   
## Recall Recall Recall   
## 0.8007968 0.8286853 0.8007968

us\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9581673 0.9601594 0.9541833 0.9243028 0.9780876 0.9721116 0.9243028   
## Recall Recall Recall   
## 0.9342629 0.9482072 0.9482072

os\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.5876494 0.5617530 0.5358566 0.5737052 0.5717131 0.5557769 0.5996016   
## Recall Recall Recall   
## 0.5657371 0.5517928 0.5776892

smote\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8864542 0.8924303 0.9083665 0.8685259 0.8984064 0.8545817 0.9043825   
## Recall Recall Recall   
## 0.8665339 0.8944223 0.8944223

us\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.7549801 1.0000000 0.9860558 0.9880478 0.9462151 1.0000000 0.7270916   
## Recall Recall Recall   
## 0.9960159 1.0000000 0.9282869

os\_nb\_recall

## Recall Recall Recall Recall Recall Recall   
## 0.02788845 0.07768924 0.08167331 0.09760956 0.14940239 0.06374502   
## Recall Recall Recall Recall   
## 0.04183267 0.10159363 0.20717131 0.04183267

smote\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8764940 0.8944223 0.9163347 0.9382470 0.9262948 0.6474104 0.8725100   
## Recall Recall Recall   
## 0.7410359 0.9621514 0.8705179

us\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8797710 0.8946878 0.8804554 0.8770257 0.8791627 0.8844697 0.8842505   
## F1 F1 F1   
## 0.8766859 0.8751192 0.8725869

os\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.6699629 0.6715328 0.6666667 0.6405063 0.6363636 0.6682868 0.6542751   
## F1 F1 F1   
## 0.6525000 0.6722689 0.6509317

smote\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8154944 0.8198381 0.8368368 0.8238866 0.8354935 0.8164103 0.8269618   
## F1 F1 F1   
## 0.8170732 0.8345035 0.8179044

us\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8948837 0.8984157 0.8961646 0.8838095 0.9059041 0.9037037 0.8871893   
## F1 F1 F1   
## 0.8874172 0.8955786 0.8938967

os\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.7091346 0.6903305 0.6691542 0.7015834 0.6974484 0.6888889 0.7192354   
## F1 F1 F1   
## 0.6926829 0.6822660 0.7055961

smote\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8632396 0.8657005 0.8752399 0.8523949 0.8706564 0.8478261 0.8705657   
## F1 F1 F1   
## 0.8529412 0.8659595 0.8651252

us\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8012685 0.9110708 0.9057640 0.9067642 0.8861940 0.9110708 0.7874865   
## F1 F1 F1   
## 0.9099181 0.9110708 0.8842505

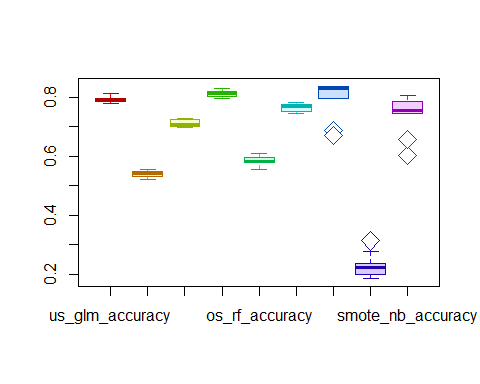
os\_nb\_f1

## F1 F1 F1 F1 F1 F1   
## 0.05426357 0.14338235 0.15018315 0.17594255 0.25728988 0.11962617   
## F1 F1 F1 F1   
## 0.08030593 0.18246869 0.33548387 0.08030593

smote\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8543689 0.8618042 0.8736942 0.8845070 0.8781870 0.7319820 0.8529698   
## F1 F1 F1   
## 0.7831579 0.8927911 0.8501946

c1 <- rainbow(10)  
c2 <- rainbow(10, alpha=0.2)  
c3 <- rainbow(10, v=0.7)  
boxplot(df, col=c2, medcol=c3, whiskcol=c1, staplecol=c3, boxcol=c3, outcol=c3, pch=23, cex=2)



mean(us\_nb\_accuracy)

## [1] 0.7955

mean(us\_nb\_precision)

## [1] 0.8412886

mean(us\_nb\_recall)

## [1] 0.9326693

mean(us\_nb\_f1)

## [1] 0.8814858

mean(os\_nb\_accuracy)

## [1] 0.2313333

mean(os\_nb\_precision)

## [1] 0.9423014

mean(os\_nb\_recall)

## [1] 0.08904382

mean(os\_nb\_f1)

## [1] 0.1579252

mean(smote\_nb\_accuracy)

## [1] 0.7426667

mean(smote\_nb\_precision)

## [1] 0.8341249

mean(smote\_nb\_recall)

## [1] 0.8645418

mean(smote\_nb\_f1)

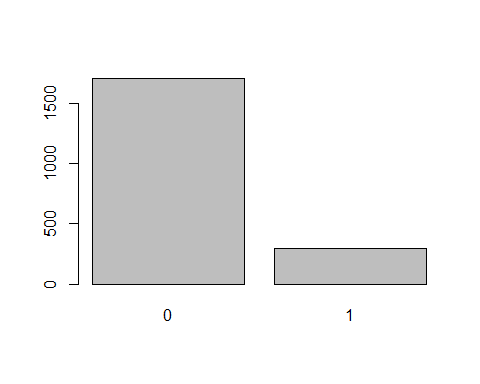
## [1] 0.8463657

a <- matrix(  
 c(mean(us\_glm\_accuracy),mean(us\_glm\_precision),mean(us\_glm\_recall),mean(us\_glm\_f1),  
 mean(os\_glm\_accuracy),mean(os\_glm\_precision),mean(os\_glm\_recall),mean(os\_glm\_f1),  
 mean(smote\_glm\_accuracy),mean(smote\_glm\_precision),mean(smote\_glm\_recall),mean(smote\_glm\_f1)),  
 nrow=3,  
 ncol=4,  
 byrow = TRUE  
)  
  
a

## [,1] [,2] [,3] [,4]  
## [1,] 0.7906667 0.8429621 0.9215139 0.8804215  
## [2,] 0.5393333 0.8672775 0.5308765 0.6583295  
## [3,] 0.7106667 0.8370220 0.8123506 0.8244403

## Patients with hypertension

#See the data before balancing  
barplot(table(patients$hypertension), xlab=colnames(patients$hypertension))



#filter the dataset and have only hypertension disease as the target   
hypertension\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service, hypertension)  
  
#The data were partitioned into a test and training set using a 70/30 split.  
train <- sample(nrow(hypertension\_set), 0.7\*nrow(hypertension\_set), replace = FALSE)  
 TrainSet <- hypertension\_set[train,]  
 ValidSet <- hypertension\_set[-train,]  
   
response <- as.factor(patients$hypertension)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry)

### Excerice the Undersampling, oversampling, and smote against the test dataset

## Logistic Regression, Randomforest, and Naive Bayes Models

#initialize variables  
 us\_glm\_accuracy <- c()  
 us\_glm\_precision <- c()  
 us\_glm\_recall <- c()  
 us\_glm\_f1 <- c()  
   
 os\_glm\_accuracy <- c()  
 os\_glm\_precision <- c()  
 os\_glm\_recall <- c()  
 os\_glm\_f1 <- c()  
   
 smote\_glm\_accuracy <- c()  
 smote\_glm\_precision <- c()  
 smote\_glm\_recall <- c()  
 smote\_glm\_f1 <- c()  
   
 us\_rf\_accuracy <- c()  
 us\_rf\_precision <- c()  
 us\_rf\_recall <- c()  
 us\_rf\_f1 <- c()  
   
 os\_rf\_accuracy <- c()  
 os\_rf\_precision <- c()  
 os\_rf\_recall <- c()  
 os\_rf\_f1 <- c()  
   
 smote\_rf\_accuracy <- c()  
 smote\_rf\_precision <- c()  
 smote\_rf\_recall <- c()  
 smote\_rf\_f1 <- c()  
   
 us\_nb\_accuracy <- c()  
 us\_nb\_precision <- c()  
 us\_nb\_recall <- c()  
 us\_nb\_f1 <- c()  
   
 os\_nb\_accuracy <- c()  
 os\_nb\_precision <- c()  
 os\_nb\_recall <- c()  
 os\_nb\_f1 <- c()  
   
 smote\_nb\_accuracy <- c()  
 smote\_nb\_precision <- c()  
 smote\_nb\_recall <- c()  
 smote\_nb\_f1 <- c()  
   
 #use the 10-fold cross-validation and repeate the step 3 times  
 train\_control <- trainControl(method = "cv", number = 10)  
 metric <- "Accuracy"  
 mtry <- sqrt(ncol(alzheimer\_set))  
 tunegrid <- expand.grid(.mtry=mtry)

# iterate throug the sampling and model 10 times and get the mean to get the best model for the dataset prediction  
 for (i in 1:10) {  
   
 #run the undersampling  
 data <- ubUnder(X=input, Y=response, perc=40, method="percPos")  
 us\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the oversampling  
 data <- ubOver(X=input, Y=response)  
 os\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the smote  
 data <- ubSMOTE(X=input, Y=response)  
 smote\_dataset <- cbind(data$X, class=data$Y)  
   
 #use the 10-fold cross-validation and repeate the step 3 times  
 train\_control <- trainControl(method = "repeatedcv", number = 10, repeats=3, savePredictions = TRUE)  
   
 #run the logistic regression for the undersampling  
 glm\_mod <- caret::train(class~.,data=us\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 us\_glm\_accuracy <- c(us\_glm\_accuracy, us\_cm$overall['Accuracy'])  
 us\_glm\_precision <- c(us\_glm\_precision, us\_cm$byClass['Precision'])  
 us\_glm\_recall <- c(us\_glm\_recall, us\_cm$byClass['Recall'])  
 us\_glm\_f1 <- c(us\_glm\_f1, us\_cm$byClass['F1'])  
   
 #run the logistic regression for the oversampling  
 glm\_mod <- caret::train(class~.,data=os\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 os\_glm\_accuracy <- c(os\_glm\_accuracy, os\_cm$overall['Accuracy'])  
 os\_glm\_precision <- c(os\_glm\_precision, os\_cm$byClass['Precision'])  
 os\_glm\_recall <- c(os\_glm\_recall, os\_cm$byClass['Recall'])  
 os\_glm\_f1 <- c(os\_glm\_f1, os\_cm$byClass['F1'])  
   
 #run the logistic regression for the smote  
 glm\_mod <- caret::train(class~.,data=smote\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 smote\_glm\_accuracy <- c(smote\_glm\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_glm\_precision <- c(smote\_glm\_precision, cm\_smote$byClass['Precision'])  
 smote\_glm\_recall <- c(smote\_glm\_recall, cm\_smote$byClass['Recall'])  
 smote\_glm\_f1 <- c(smote\_glm\_f1, cm\_smote$byClass['F1'])  
   
 #run the random forest for the undersampling  
 rf\_mod <- caret::train(class~., data=us\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 us\_rf\_accuracy <- c(us\_rf\_accuracy, us\_cm$overall['Accuracy'])  
 us\_rf\_precision <- c(us\_rf\_precision, us\_cm$byClass['Precision'])  
 us\_rf\_recall <- c(us\_rf\_recall, us\_cm$byClass['Recall'])  
 us\_rf\_f1 <- c(us\_rf\_f1, us\_cm$byClass['F1'])  
   
 #run the random forest for the oversampling  
 rf\_mod <- caret::train(class~., data=os\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 os\_rf\_accuracy <- c(os\_rf\_accuracy, os\_cm$overall['Accuracy'])  
 os\_rf\_precision <- c(os\_rf\_precision, os\_cm$byClass['Precision'])  
 os\_rf\_recall <- c(os\_rf\_recall, os\_cm$byClass['Recall'])  
 os\_rf\_f1 <- c(os\_rf\_f1, os\_cm$byClass['F1'])  
   
 #run the random forest for the smote  
 rf\_mod <- caret::train(class~., data=smote\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 smote\_rf\_accuracy <- c(smote\_rf\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_rf\_precision <- c(smote\_rf\_precision, cm\_smote$byClass['Precision'])  
 smote\_rf\_recall <- c(smote\_rf\_recall, cm\_smote$byClass['Recall'])  
 smote\_rf\_f1 <- c(smote\_rf\_f1, cm\_smote$byClass['F1'])  
   
 #run the naive byes for the undersampling  
 nb\_mod <- caret::train(class~., data=us\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 us\_nb\_accuracy <- c(us\_nb\_accuracy, us\_cm$overall['Accuracy'])  
 us\_nb\_precision <- c(us\_nb\_precision, us\_cm$byClass['Precision'])  
 us\_nb\_recall <- c(us\_nb\_recall, us\_cm$byClass['Recall'])  
 us\_nb\_f1 <- c(us\_nb\_f1, us\_cm$byClass['F1'])  
  
 #run the naive byes for the oversampling  
 nb\_mod <- caret::train(class~., data=os\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 os\_nb\_accuracy <- c(os\_nb\_accuracy, os\_cm$overall['Accuracy'])  
 os\_nb\_precision <- c(os\_nb\_precision, os\_cm$byClass['Precision'])  
 os\_nb\_recall <- c(os\_nb\_recall, os\_cm$byClass['Recall'])  
 os\_nb\_f1 <- c(os\_nb\_f1, os\_cm$byClass['F1'])  
   
 #run the naive byes for the smote  
 nb\_mod <- caret::train(class~., data=smote\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$hypertension), mode='everything')  
 smote\_nb\_accuracy <- c(smote\_nb\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_nb\_precision <- c(smote\_nb\_precision, cm\_smote$byClass['Precision'])  
 smote\_nb\_recall <- c(smote\_nb\_recall, cm\_smote$byClass['Recall'])  
 smote\_nb\_f1 <- c(smote\_nb\_f1, cm\_smote$byClass['F1'])  
 }

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 73

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

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 94

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 123

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## 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 54

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 130

## 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  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 202

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 182

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 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 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 199

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 216

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 303

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 83

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 199

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 282

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 326

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 327

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 334

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 276

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 311

## 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  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 158

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 270

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 245

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 274

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[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 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 258

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 327

## Warning in FUN(X[[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 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 145

## Warning in FUN(X[[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 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 206

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 170

## Warning in FUN(X[[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 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 205

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 84

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 174

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 187

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 130

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 198

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## Warning in FUN(X[[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 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 182

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 186

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 195

## Warning in FUN(X[[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 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[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 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[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 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 53

## Warning in FUN(X[[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 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 171

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 173

## 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 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[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  
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## Warning in FUN(X[[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 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 311

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 600

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## 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 68

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[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 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 160

## 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 27

## 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 91

## Warning in FUN(X[[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 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 307

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
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## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 52

## 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 69

## 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 72

## 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 14

## 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 45

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## 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 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[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 57

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 322

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 309

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## observation 201

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 332

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

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

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

## 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 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 181

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 183

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 185

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 54

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 112

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 129

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 181

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 185

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 207

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 65

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[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 167

## Warning in FUN(X[[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 20

## 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 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 121

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 133

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 202

## 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 26

## 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 83

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 143

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 173

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 193

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 107

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 129

## 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 21

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 179

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 154

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 175

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 204

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 182

## Warning in FUN(X[[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 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 109

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 158

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 118

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 3

## 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 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 49

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 124

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 170

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 187

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 105

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 116

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 158

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 176

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 180

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 23

## 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 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 167

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 203

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 54

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 162

## Warning in FUN(X[[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 172

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 176

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 48

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[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 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 180

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 108

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 128

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 164

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 125

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

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

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 110

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 191

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 200

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 198

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 220

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 225

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 242

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 307

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 311

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 331

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 458

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 600

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
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## ifelse(type == : prediction from a rank-deficient fit may be misleading

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

## 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 60

## 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 29

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## 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 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 54

## 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 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 52

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## 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 73

## 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 54

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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 79

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 169

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## 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 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 178

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 182

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 102

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 120

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 189

## 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 14

## 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 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 181

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 166

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 178

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 181

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 189

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## 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 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 93

## Warning in FUN(X[[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 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 115

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 135

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 150

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 104

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 146

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 174

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 180

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 194

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 83

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 111

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 131

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[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 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 125

## Warning in FUN(X[[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 181

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 141

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 187

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 154

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 205

## 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  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 113

## Warning in FUN(X[[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 187

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 132

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

## 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 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## 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 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[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 173

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 187

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 101

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 175

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 184

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 192

## 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 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  
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 176

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

## 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 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 187

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 140

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 190

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 209

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 302

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 307

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
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## ifelse(type == : prediction from a rank-deficient fit may be misleading

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## 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 19

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

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

## 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 46

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 61

## 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 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 55

## 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 47

## 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 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 73

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 72

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 60

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 30

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

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## 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 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 27

## 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 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 71

## 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  
## observation 74

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 327

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 328

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 210

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 268

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 310

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 313

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 314

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 319

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 219

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 292

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 314

## Warning in FUN(X[[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 334

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 106

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 127

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 134

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 143

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 149

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 155

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 69

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 307

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading

## 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  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 74

## Warning in FUN(X[[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 51

## 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  
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## Warning in FUN(X[[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 51

## 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 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for 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 44

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 54

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 222

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 330

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 153

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 212

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 295

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## observation 419

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 450

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 457

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 553

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 575

## Result of the hypertension analysis

The data were partitioned into a test and training set using a 70/30 split.

df <- data.frame(us\_glm\_accuracy, os\_glm\_accuracy, smote\_glm\_accuracy, us\_rf\_accuracy, os\_rf\_accuracy, smote\_rf\_accuracy, us\_nb\_accuracy, os\_nb\_accuracy, smote\_nb\_accuracy)  
  
us\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8666667 0.8300000 0.8683333 0.8200000 0.8283333 0.8700000 0.8600000   
## Accuracy Accuracy Accuracy   
## 0.8700000 0.8300000 0.8016667

os\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.4950000 0.5283333 0.5283333 0.5200000 0.5116667 0.5183333 0.5483333   
## Accuracy Accuracy Accuracy   
## 0.5166667 0.5083333 0.4900000

smote\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7933333 0.7716667 0.7683333 0.7700000 0.7916667 0.8100000 0.7850000   
## Accuracy Accuracy Accuracy   
## 0.7850000 0.7983333 0.8083333

us\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8566667 0.8233333 0.8666667 0.8516667 0.8583333 0.8683333 0.8750000   
## Accuracy Accuracy Accuracy   
## 0.8766667 0.8483333 0.8600000

os\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.5216667 0.4933333 0.5883333 0.5650000 0.5866667 0.5866667 0.6066667   
## Accuracy Accuracy Accuracy   
## 0.5583333 0.5633333 0.5366667

smote\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8250000 0.8250000 0.7950000 0.8400000 0.8350000 0.8400000 0.8066667   
## Accuracy Accuracy Accuracy   
## 0.8316667 0.8150000 0.8383333

us\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8716667 0.8550000 0.8716667 0.8716667 0.8716667 0.8716667 0.8716667   
## Accuracy Accuracy Accuracy   
## 0.8716667 0.8716667 0.8716667

os\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.1566667 0.1566667 0.1566667 0.1683333 0.1583333 0.2483333 0.1583333   
## Accuracy Accuracy Accuracy   
## 0.1916667 0.2250000 0.1566667

smote\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8116667 0.7833333 0.7566667 0.7733333 0.8016667 0.8016667 0.7966667   
## Accuracy Accuracy Accuracy   
## 0.8100000 0.7750000 0.8116667

us\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8735245 0.8779174 0.8712375 0.8779599 0.8763441 0.8739496 0.8884956   
## Precision Precision Precision   
## 0.8739496 0.8752228 0.8754647

os\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8956835 0.8973510 0.9054054 0.8929766 0.8859060 0.8774194 0.8962264   
## Precision Precision Precision   
## 0.8949153 0.8958333 0.8945455

smote\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8858801 0.8906883 0.8855422 0.8857715 0.8871595 0.8865784 0.8877953   
## Precision Precision Precision   
## 0.8862745 0.8910506 0.8893130

us\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8894831 0.8897196 0.8892794 0.8931159 0.8996350 0.8867596 0.8985765   
## Precision Precision Precision   
## 0.8824532 0.9044944 0.8969259

os\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9436090 0.9294118 0.9339623 0.9366667 0.9421222 0.9283489 0.9335347   
## Precision Precision Precision   
## 0.9271523 0.9364548 0.9328622

smote\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8899254 0.8943396 0.8891051 0.8917431 0.8925926 0.8903108 0.8921002   
## Precision Precision Precision   
## 0.8892989 0.8916350 0.8915441

us\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8716667 0.8758621 0.8716667 0.8729097 0.8716667 0.8716667 0.8716667   
## Precision Precision Precision   
## 0.8716667 0.8716667 0.8716667

os\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9047619 0.9047619 0.9047619 0.8750000 0.8461538 0.8829787 0.9090909   
## Precision Precision Precision   
## 0.9130435 0.8918919 0.9047619

smote\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8867925 0.8891089 0.8854806 0.8862275 0.8854962 0.8869732 0.8893204   
## Precision Precision Precision   
## 0.8880455 0.8864542 0.8867925

us\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9904398 0.9349904 0.9961759 0.9216061 0.9349904 0.9942639 0.9598470   
## Recall Recall Recall   
## 0.9942639 0.9388145 0.9005736

os\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.4760994 0.5181644 0.5124283 0.5105163 0.5047801 0.5200765 0.5449331   
## Recall Recall Recall   
## 0.5047801 0.4933078 0.4703633

smote\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8757170 0.8413002 0.8432122 0.8451243 0.8718929 0.8967495 0.8623327   
## Recall Recall Recall   
## 0.8642447 0.8757170 0.8910134

us\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9541109 0.9101338 0.9674952 0.9426386 0.9426386 0.9732314 0.9655832   
## Recall Recall Recall   
## 0.9904398 0.9235182 0.9483748

os\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.4799235 0.4531549 0.5678776 0.5372849 0.5602294 0.5697897 0.5908222   
## Recall Recall Recall   
## 0.5353728 0.5353728 0.5047801

smote\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9120459 0.9063098 0.8738050 0.9292543 0.9216061 0.9311663 0.8852772   
## Recall Recall Recall   
## 0.9216061 0.8967495 0.9273423

us\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 1.0000000 0.9713193 1.0000000 0.9980880 1.0000000 1.0000000 1.0000000   
## Recall Recall Recall   
## 1.0000000 1.0000000 1.0000000

os\_nb\_recall

## Recall Recall Recall Recall Recall Recall   
## 0.03632887 0.03632887 0.03632887 0.05353728 0.04206501 0.15869981   
## Recall Recall Recall Recall   
## 0.03824092 0.08030593 0.12619503 0.03632887

smote\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8986616 0.8585086 0.8279159 0.8489484 0.8871893 0.8852772 0.8757170   
## Recall Recall Recall   
## 0.8948375 0.8508604 0.8986616

us\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9283154 0.9055556 0.9295272 0.8992537 0.9047179 0.9302326 0.9227941   
## F1 F1 F1   
## 0.9302326 0.9059041 0.8878417

os\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.6217228 0.6569697 0.6544567 0.6496350 0.6431181 0.6530612 0.6777646   
## F1 F1 F1   
## 0.6454768 0.6362515 0.6165414

smote\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8807692 0.8652901 0.8638590 0.8649706 0.8794600 0.8916350 0.8748788   
## F1 F1 F1   
## 0.8751210 0.8833173 0.8901624

us\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9206642 0.8998110 0.9267399 0.9172093 0.9206349 0.9279854 0.9308756   
## F1 F1 F1   
## 0.9333333 0.9139073 0.9219331

os\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.6362484 0.6092545 0.7063020 0.6828676 0.7026379 0.7061611 0.7236534   
## F1 F1 F1   
## 0.6787879 0.6812652 0.6550868

smote\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9008499 0.9002849 0.8813886 0.9101124 0.9068674 0.9102804 0.8886756   
## F1 F1 F1   
## 0.9051643 0.8941849 0.9090909

us\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9314337 0.9211242 0.9314337 0.9313113 0.9314337 0.9314337 0.9314337   
## F1 F1 F1   
## 0.9314337 0.9314337 0.9314337

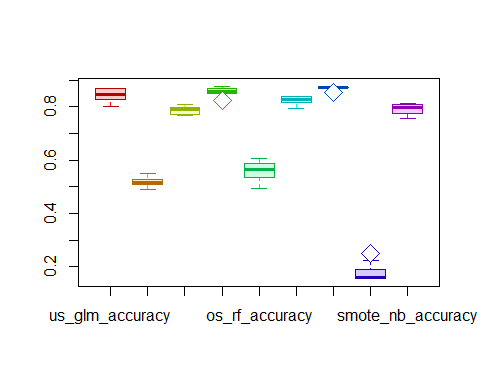
os\_nb\_f1

## F1 F1 F1 F1 F1 F1   
## 0.06985294 0.06985294 0.06985294 0.10090090 0.08014572 0.26904376   
## F1 F1 F1 F1   
## 0.07339450 0.14762742 0.22110553 0.06985294

smote\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8926876 0.8735409 0.8557312 0.8671875 0.8863419 0.8861244 0.8824663   
## F1 F1 F1   
## 0.8914286 0.8682927 0.8926876

c1 <- rainbow(10)  
c2 <- rainbow(10, alpha=0.2)  
c3 <- rainbow(10, v=0.7)  
boxplot(df, col=c2, medcol=c3, whiskcol=c1, staplecol=c3, boxcol=c3, outcol=c3, pch=23, cex=2)



mean(us\_nb\_accuracy)

## [1] 0.87

mean(us\_nb\_precision)

## [1] 0.8722105

mean(us\_nb\_recall)

## [1] 0.9969407

mean(us\_nb\_f1)

## [1] 0.9303905

mean(os\_nb\_accuracy)

## [1] 0.1776667

mean(os\_nb\_precision)

## [1] 0.8937206

mean(os\_nb\_recall)

## [1] 0.06443595

mean(os\_nb\_f1)

## [1] 0.117163

mean(smote\_nb\_accuracy)

## [1] 0.7921667

mean(smote\_nb\_precision)

## [1] 0.8870691

mean(smote\_nb\_recall)

## [1] 0.8726577

mean(smote\_nb\_f1)

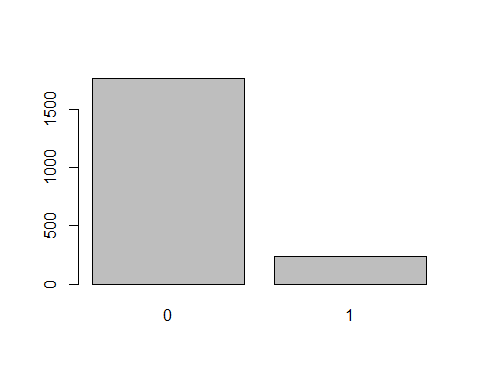
## [1] 0.8796489

a <- matrix(  
 c(mean(us\_glm\_accuracy),mean(us\_glm\_precision),mean(us\_glm\_recall),mean(us\_glm\_f1),  
 mean(os\_glm\_accuracy),mean(os\_glm\_precision),mean(os\_glm\_recall),mean(os\_glm\_f1),  
 mean(smote\_glm\_accuracy),mean(smote\_glm\_precision),mean(smote\_glm\_recall),mean(smote\_glm\_f1)),  
 nrow=3,  
 ncol=4,  
 byrow = TRUE  
)  
  
a

## [,1] [,2] [,3] [,4]  
## [1,] 0.8445000 0.8764066 0.9565966 0.9144375  
## [2,] 0.5165000 0.8936262 0.5055449 0.6454998  
## [3,] 0.7881667 0.8876053 0.8667304 0.8769463

## Patients with skin cancer

#See the data before balancing  
barplot(table(patients$skin\_cancer), xlab=colnames(patients$skin\_cancer))



#filter the dataset and have only skin\_cancer disease as the target   
skin\_cancer\_set <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry, available\_vehicles, avg\_commute,zipcode, children,daily\_internet\_use,military\_service, skin\_cancer)  
  
#The data were partitioned into a test and training set using a 70/30 split.  
train <- sample(nrow(skin\_cancer\_set), 0.7\*nrow(skin\_cancer\_set), replace = FALSE)  
 TrainSet <- skin\_cancer\_set[train,]  
 ValidSet <- skin\_cancer\_set[-train,]  
   
response <- as.factor(patients$skin\_cancer)  
input <- select(patients, gender, age, employment\_status, education, marital\_status, ancestry)

### Excerice the Undersampling, oversampling, and smote against the test dataset

## Logistic Regression, Randomforest, and Naive Bayes Models

#initialize variables  
 us\_glm\_accuracy <- c()  
 us\_glm\_precision <- c()  
 us\_glm\_recall <- c()  
 us\_glm\_f1 <- c()  
   
 os\_glm\_accuracy <- c()  
 os\_glm\_precision <- c()  
 os\_glm\_recall <- c()  
 os\_glm\_f1 <- c()  
   
 smote\_glm\_accuracy <- c()  
 smote\_glm\_precision <- c()  
 smote\_glm\_recall <- c()  
 smote\_glm\_f1 <- c()  
   
 us\_rf\_accuracy <- c()  
 us\_rf\_precision <- c()  
 us\_rf\_recall <- c()  
 us\_rf\_f1 <- c()  
   
 os\_rf\_accuracy <- c()  
 os\_rf\_precision <- c()  
 os\_rf\_recall <- c()  
 os\_rf\_f1 <- c()  
   
 smote\_rf\_accuracy <- c()  
 smote\_rf\_precision <- c()  
 smote\_rf\_recall <- c()  
 smote\_rf\_f1 <- c()  
   
 us\_nb\_accuracy <- c()  
 us\_nb\_precision <- c()  
 us\_nb\_recall <- c()  
 us\_nb\_f1 <- c()  
   
 os\_nb\_accuracy <- c()  
 os\_nb\_precision <- c()  
 os\_nb\_recall <- c()  
 os\_nb\_f1 <- c()  
   
 smote\_nb\_accuracy <- c()  
 smote\_nb\_precision <- c()  
 smote\_nb\_recall <- c()  
 smote\_nb\_f1 <- c()  
   
 #use the 10-fold cross-validation and repeate the step 3 times  
 train\_control <- trainControl(method = "cv", number = 10)  
 metric <- "Accuracy"  
 mtry <- sqrt(ncol(skin\_cancer\_set))  
 tunegrid <- expand.grid(.mtry=mtry)

# iterate throug the sampling and model 10 times and get the mean to get the best model for the dataset prediction  
 for (i in 1:10) {  
   
 #run the undersampling  
 data <- ubUnder(X=input, Y=response, perc=40, method="percPos")  
 us\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the oversampling  
 data <- ubOver(X=input, Y=response)  
 os\_dataset <- cbind(data$X, class=data$Y)  
   
 #run the smote  
 data <- ubSMOTE(X=input, Y=response)  
 smote\_dataset <- cbind(data$X, class=data$Y)  
   
 #use the 10-fold cross-validation and repeate the step 3 times  
 train\_control <- trainControl(method = "repeatedcv", number = 10, repeats=3, savePredictions = TRUE)  
   
 #run the logistic regression for the undersampling  
 glm\_mod <- caret::train(class~.,data=us\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 us\_glm\_accuracy <- c(us\_glm\_accuracy, us\_cm$overall['Accuracy'])  
 us\_glm\_precision <- c(us\_glm\_precision, us\_cm$byClass['Precision'])  
 us\_glm\_recall <- c(us\_glm\_recall, us\_cm$byClass['Recall'])  
 us\_glm\_f1 <- c(us\_glm\_f1, us\_cm$byClass['F1'])  
   
 #run the logistic regression for the oversampling  
 glm\_mod <- caret::train(class~.,data=os\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 os\_glm\_accuracy <- c(os\_glm\_accuracy, os\_cm$overall['Accuracy'])  
 os\_glm\_precision <- c(os\_glm\_precision, os\_cm$byClass['Precision'])  
 os\_glm\_recall <- c(os\_glm\_recall, os\_cm$byClass['Recall'])  
 os\_glm\_f1 <- c(os\_glm\_f1, os\_cm$byClass['F1'])  
   
 #run the logistic regression for the smote  
 glm\_mod <- caret::train(class~.,data=smote\_dataset, trControl = train\_control, method="glm", family="binomial", tuneLength = 5)  
 pred = predict(glm\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 smote\_glm\_accuracy <- c(smote\_glm\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_glm\_precision <- c(smote\_glm\_precision, cm\_smote$byClass['Precision'])  
 smote\_glm\_recall <- c(smote\_glm\_recall, cm\_smote$byClass['Recall'])  
 smote\_glm\_f1 <- c(smote\_glm\_f1, cm\_smote$byClass['F1'])  
   
 #run the random forest for the undersampling  
 rf\_mod <- caret::train(class~., data=us\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 us\_rf\_accuracy <- c(us\_rf\_accuracy, us\_cm$overall['Accuracy'])  
 us\_rf\_precision <- c(us\_rf\_precision, us\_cm$byClass['Precision'])  
 us\_rf\_recall <- c(us\_rf\_recall, us\_cm$byClass['Recall'])  
 us\_rf\_f1 <- c(us\_rf\_f1, us\_cm$byClass['F1'])  
   
 #run the random forest for the oversampling  
 rf\_mod <- caret::train(class~., data=os\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 os\_rf\_accuracy <- c(os\_rf\_accuracy, os\_cm$overall['Accuracy'])  
 os\_rf\_precision <- c(os\_rf\_precision, os\_cm$byClass['Precision'])  
 os\_rf\_recall <- c(os\_rf\_recall, os\_cm$byClass['Recall'])  
 os\_rf\_f1 <- c(os\_rf\_f1, os\_cm$byClass['F1'])  
   
 #run the random forest for the smote  
 rf\_mod <- caret::train(class~., data=smote\_dataset, method="rf", metric=metric, tuneGrid=tunegrid, trControl=train\_control)  
 pred = predict(rf\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 smote\_rf\_accuracy <- c(smote\_rf\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_rf\_precision <- c(smote\_rf\_precision, cm\_smote$byClass['Precision'])  
 smote\_rf\_recall <- c(smote\_rf\_recall, cm\_smote$byClass['Recall'])  
 smote\_rf\_f1 <- c(smote\_rf\_f1, cm\_smote$byClass['F1'])  
   
 #run the naive byes for the undersampling  
 nb\_mod <- caret::train(class~., data=us\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 us\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 us\_nb\_accuracy <- c(us\_nb\_accuracy, us\_cm$overall['Accuracy'])  
 us\_nb\_precision <- c(us\_nb\_precision, us\_cm$byClass['Precision'])  
 us\_nb\_recall <- c(us\_nb\_recall, us\_cm$byClass['Recall'])  
 us\_nb\_f1 <- c(us\_nb\_f1, us\_cm$byClass['F1'])  
  
 #run the naive byes for the oversampling  
 nb\_mod <- caret::train(class~., data=os\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 os\_cm <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 os\_nb\_accuracy <- c(os\_nb\_accuracy, os\_cm$overall['Accuracy'])  
 os\_nb\_precision <- c(os\_nb\_precision, os\_cm$byClass['Precision'])  
 os\_nb\_recall <- c(os\_nb\_recall, os\_cm$byClass['Recall'])  
 os\_nb\_f1 <- c(os\_nb\_f1, os\_cm$byClass['F1'])  
   
 #run the naive byes for the smote  
 nb\_mod <- caret::train(class~., data=smote\_dataset, method="nb", trControl=train\_control)  
 pred = predict(nb\_mod, newdata=ValidSet)  
 cm\_smote <- confusionMatrix(data=pred, as.factor(ValidSet$skin\_cancer), mode='everything')  
 smote\_nb\_accuracy <- c(smote\_nb\_accuracy, cm\_smote$overall['Accuracy'])  
 smote\_nb\_precision <- c(smote\_nb\_precision, cm\_smote$byClass['Precision'])  
 smote\_nb\_recall <- c(smote\_nb\_recall, cm\_smote$byClass['Recall'])  
 smote\_nb\_f1 <- c(smote\_nb\_f1, cm\_smote$byClass['F1'])  
 }

## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
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## Warning in predict.lm(object, newdata, se.fit, scale = 1, type =  
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## ifelse(type == : prediction from a rank-deficient fit may be misleading  
  
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## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold01.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: model fit failed for Fold01.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold01.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold06.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold09.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold09.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold10.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold01.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold09.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold10.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in train.default(x, y, weights = w, ...): missing values found in  
## aggregated results

## Warning: model fit failed for Fold01.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold10.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold07.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold01.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold10.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

## Warning in train.default(x, y, weights = w, ...): missing values found in  
## aggregated results

## Warning: model fit failed for Fold01.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold06.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold08.Rep1: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold01.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep2: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Warning: model fit failed for Fold01.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold02.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold03.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold04.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

## Warning: model fit failed for Fold05.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
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## Warning: model fit failed for Fold06.Rep3: usekernel=FALSE, fL=0, adjust=1 Error in NaiveBayes.default(x, y, usekernel = FALSE, fL = param$fL, ...) :   
## Zero variances for at least one class in variables: employment\_statusstudent

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## Zero variances for at least one class in variables: employment\_statusstudent

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## trainInfo, : There were missing values in resampled performance measures.

## Warning in train.default(x, y, weights = w, ...): missing values found in  
## aggregated results

## Result of the skin cancer analysis

The data were partitioned into a test and training set using a 70/30 split.

df <- data.frame(us\_glm\_accuracy, os\_glm\_accuracy, smote\_glm\_accuracy, us\_rf\_accuracy, os\_rf\_accuracy, smote\_rf\_accuracy, us\_nb\_accuracy, os\_nb\_accuracy, smote\_nb\_accuracy)  
  
us\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.8583333 0.8633333 0.7966667 0.8566667 0.8416667 0.8550000 0.7816667   
## Accuracy Accuracy Accuracy   
## 0.7866667 0.8000000 0.8583333

os\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.4583333 0.5216667 0.5066667 0.4950000 0.5166667 0.5700000 0.5550000   
## Accuracy Accuracy Accuracy   
## 0.5300000 0.5383333 0.5150000

smote\_glm\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7600000 0.7483333 0.7266667 0.8016667 0.7000000 0.7566667 0.7316667   
## Accuracy Accuracy Accuracy   
## 0.7266667 0.7750000 0.7833333

us\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7933333 0.7916667 0.8316667 0.7883333 0.7833333 0.7950000 0.7266667   
## Accuracy Accuracy Accuracy   
## 0.7800000 0.7816667 0.7833333

os\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.6200000 0.6166667 0.5983333 0.6150000 0.6033333 0.6583333 0.5933333   
## Accuracy Accuracy Accuracy   
## 0.5716667 0.6116667 0.6133333

smote\_rf\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.7583333 0.7600000 0.7650000 0.8150000 0.7583333 0.7716667 0.7750000   
## Accuracy Accuracy Accuracy   
## 0.7900000 0.7800000 0.8016667

us\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Accuracy Accuracy   
## 0.89 0.89

os\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Accuracy Accuracy   
## 0.89 0.89

smote\_nb\_accuracy

## Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Accuracy Accuracy   
## 0.89 0.89

us\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8904348 0.8937282 0.8872180 0.8902439 0.8884956 0.8955752 0.8912621   
## Precision Precision Precision   
## 0.8949416 0.8950382 0.8945518

os\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9300412 0.9363958 0.9190141 0.9325843 0.9178082 0.9259259 0.9320388   
## Precision Precision Precision   
## 0.9405594 0.9415808 0.9323843

smote\_glm\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.8963415 0.8900204 0.8886555 0.8922495 0.8915929 0.8927126 0.8909853   
## Precision Precision Precision   
## 0.8936170 0.8966203 0.8976378

us\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9133065 0.9081836 0.9046729 0.9178645 0.9122449 0.9134809 0.9166667   
## Precision Precision Precision   
## 0.9068826 0.9137577 0.9105691

os\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9526627 0.9418605 0.9535604 0.9291785 0.9539877 0.9506849 0.9503106   
## Precision Precision Precision   
## 0.9482201 0.9492537 0.9548193

smote\_rf\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.9026915 0.9079498 0.9051546 0.9043977 0.9043659 0.9042770 0.9079755   
## Precision Precision Precision   
## 0.8953488 0.9068826 0.9060665

us\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Precision Precision Precision   
## 0.89 0.89 0.89

os\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Precision Precision Precision   
## 0.89 0.89 0.89

smote\_nb\_precision

## Precision Precision Precision Precision Precision Precision Precision   
## 0.89 0.89 0.89 0.89 0.89 0.89 0.89   
## Precision Precision Precision   
## 0.89 0.89 0.89

us\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.9588015 0.9606742 0.8838951 0.9569288 0.9400749 0.9475655 0.8595506   
## Recall Recall Recall   
## 0.8614232 0.8782772 0.9531835

os\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.4232210 0.4962547 0.4887640 0.4662921 0.5018727 0.5617978 0.5393258   
## Recall Recall Recall   
## 0.5037453 0.5131086 0.4906367

smote\_glm\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8258427 0.8183521 0.7921348 0.8838951 0.7546816 0.8258427 0.7958801   
## Recall Recall Recall   
## 0.7865169 0.8445693 0.8539326

us\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8483146 0.8520599 0.9063670 0.8370787 0.8370787 0.8501873 0.7621723   
## Recall Recall Recall   
## 0.8389513 0.8333333 0.8389513

os\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.6029963 0.6067416 0.5767790 0.6142322 0.5823970 0.6498127 0.5730337   
## Recall Recall Recall   
## 0.5486891 0.5955056 0.5936330

smote\_rf\_recall

## Recall Recall Recall Recall Recall Recall Recall   
## 0.8164794 0.8127341 0.8220974 0.8857678 0.8146067 0.8314607 0.8314607   
## Recall Recall Recall   
## 0.8651685 0.8389513 0.8670412

us\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall Recall Recall Recall   
## 1 1 1 1 1 1 1 1 1 1

os\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall Recall Recall Recall   
## 1 1 1 1 1 1 1 1 1 1

smote\_nb\_recall

## Recall Recall Recall Recall Recall Recall Recall Recall Recall Recall   
## 1 1 1 1 1 1 1 1 1 1

us\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9233544 0.9259928 0.8855535 0.9223827 0.9135578 0.9208371 0.8751192   
## F1 F1 F1   
## 0.8778626 0.8865784 0.9229374

os\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.5817246 0.6487148 0.6381418 0.6217228 0.6489104 0.6993007 0.6832740   
## F1 F1 F1   
## 0.6560976 0.6642424 0.6429448

smote\_glm\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8596491 0.8526829 0.8376238 0.8880527 0.8174442 0.8579767 0.8407517   
## F1 F1 F1   
## 0.8366534 0.8698168 0.8752399

us\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8796117 0.8792271 0.9055192 0.8756121 0.8730469 0.8806984 0.8323108   
## F1 F1 F1   
## 0.8715953 0.8716944 0.8732943

os\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.7385321 0.7380410 0.7187865 0.7395716 0.7232558 0.7719689 0.7149533   
## F1 F1 F1   
## 0.6951364 0.7318757 0.7321016

smote\_rf\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.8574238 0.8577075 0.8616290 0.8949858 0.8571429 0.8663415 0.8680352   
## F1 F1 F1   
## 0.8800000 0.8715953 0.8861244

us\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989   
## F1 F1 F1   
## 0.9417989 0.9417989 0.9417989

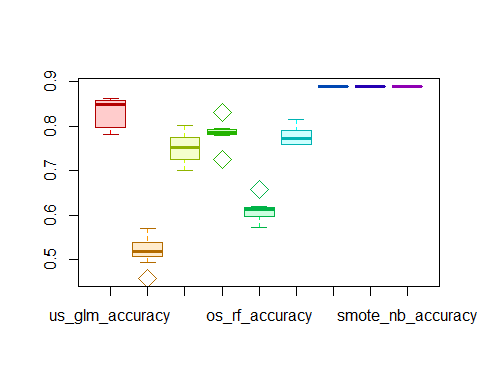
os\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989   
## F1 F1 F1   
## 0.9417989 0.9417989 0.9417989

smote\_nb\_f1

## F1 F1 F1 F1 F1 F1 F1   
## 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989 0.9417989   
## F1 F1 F1   
## 0.9417989 0.9417989 0.9417989

c1 <- rainbow(10)  
c2 <- rainbow(10, alpha=0.2)  
c3 <- rainbow(10, v=0.7)  
boxplot(df, col=c2, medcol=c3, whiskcol=c1, staplecol=c3, boxcol=c3, outcol=c3, pch=23, cex=2)



mean(us\_nb\_accuracy)

## [1] 0.89

mean(us\_nb\_precision)

## [1] 0.89

mean(us\_nb\_recall)

## [1] 1

mean(us\_nb\_f1)

## [1] 0.9417989

mean(os\_nb\_accuracy)

## [1] 0.89

mean(os\_nb\_precision)

## [1] 0.89

mean(os\_nb\_recall)

## [1] 1

mean(os\_nb\_f1)

## [1] 0.9417989

mean(smote\_nb\_accuracy)

## [1] 0.89

mean(smote\_nb\_precision)

## [1] 0.89

mean(smote\_nb\_recall)

## [1] 1

mean(smote\_nb\_f1)

## [1] 0.9417989

a <- matrix(  
 c(mean(us\_glm\_accuracy),mean(us\_glm\_precision),mean(us\_glm\_recall),mean(us\_glm\_f1),  
 mean(os\_glm\_accuracy),mean(os\_glm\_precision),mean(os\_glm\_recall),mean(os\_glm\_f1),  
 mean(smote\_glm\_accuracy),mean(smote\_glm\_precision),mean(smote\_glm\_recall),mean(smote\_glm\_f1)),  
 nrow=3,  
 ncol=4,  
 byrow = TRUE  
)  
  
a

## [,1] [,2] [,3] [,4]  
## [1,] 0.8298333 0.8921490 0.9200375 0.9054176  
## [2,] 0.5206667 0.9308333 0.4985019 0.6485074  
## [3,] 0.7510000 0.8930433 0.8181648 0.8535891