Module 4 Project - Thera Bank

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#Setting a working drict.

setwd("C:/Users/mgomaa032/Desktop/PwC/Projects/DXB/PnO/WorkFroce analytics/UT Austin/Module 4/Week 3")  
getwd()

## [1] "C:/Users/mgomaa032/Desktop/PwC/Projects/DXB/PnO/WorkFroce analytics/UT Austin/Module 4/Week 3"

#Importing master data.

library(knitr)  
library(readxl)  
Bank\_Full\_DS= read\_xlsx('Thera Bank\_Personal\_Loan\_Modelling-dataset-1.xlsx', sheet = 'Bank\_Personal\_Loan\_Modelling', col\_names = T)  
View(Bank\_Full\_DS)  
tail(Bank\_Full\_DS,10)

## # A tibble: 10 x 14  
## ID `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 4991 55 25 58 95023  
## 2 4992 51 25 92 91330  
## 3 4993 30 5 13 90037  
## 4 4994 45 21 218 91801  
## 5 4995 64 40 75 94588  
## 6 4996 29 3 40 92697  
## 7 4997 30 4 15 92037  
## 8 4998 63 39 24 93023  
## 9 4999 65 40 49 90034  
## 10 5000 28 4 83 92612  
## # ... with 9 more variables: `Family members` <dbl>, CCAvg <dbl>,  
## # Education <dbl>, Mortgage <dbl>, `Personal Loan` <dbl>, `Securities  
## # Account` <dbl>, `CD Account` <dbl>, Online <dbl>, CreditCard <dbl>

#Expletory Analysis

dim(Bank\_Full\_DS)

## [1] 5000 14

names(Bank\_Full\_DS)

## [1] "ID" "Age (in years)" "Experience (in years)"  
## [4] "Income (in K/month)" "ZIP Code" "Family members"   
## [7] "CCAvg" "Education" "Mortgage"   
## [10] "Personal Loan" "Securities Account" "CD Account"   
## [13] "Online" "CreditCard"

head(Bank\_Full\_DS)

## # A tibble: 6 x 14  
## ID `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 1 25 1 49 91107  
## 2 2 45 19 34 90089  
## 3 3 39 15 11 94720  
## 4 4 35 9 100 94112  
## 5 5 35 8 45 91330  
## 6 6 37 13 29 92121  
## # ... with 9 more variables: `Family members` <dbl>, CCAvg <dbl>,  
## # Education <dbl>, Mortgage <dbl>, `Personal Loan` <dbl>, `Securities  
## # Account` <dbl>, `CD Account` <dbl>, Online <dbl>, CreditCard <dbl>

View(Bank\_Full\_DS)  
str(Bank\_Full\_DS)

## Classes 'tbl\_df', 'tbl' and 'data.frame': 5000 obs. of 14 variables:  
## $ ID : num 1 2 3 4 5 6 7 8 9 10 ...  
## $ Age (in years) : num 25 45 39 35 35 37 53 50 35 34 ...  
## $ Experience (in years): num 1 19 15 9 8 13 27 24 10 9 ...  
## $ Income (in K/month) : num 49 34 11 100 45 29 72 22 81 180 ...  
## $ ZIP Code : num 91107 90089 94720 94112 91330 ...  
## $ Family members : num 4 3 1 1 4 4 2 1 3 1 ...  
## $ CCAvg : num 1.6 1.5 1 2.7 1 0.4 1.5 0.3 0.6 8.9 ...  
## $ Education : num 1 1 1 2 2 2 2 3 2 3 ...  
## $ Mortgage : num 0 0 0 0 0 155 0 0 104 0 ...  
## $ Personal Loan : num 0 0 0 0 0 0 0 0 0 1 ...  
## $ Securities Account : num 1 1 0 0 0 0 0 0 0 0 ...  
## $ CD Account : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ Online : num 0 0 0 0 0 1 1 0 1 0 ...  
## $ CreditCard : num 0 0 0 0 1 0 0 1 0 0 ...

summary(Bank\_Full\_DS)

## ID Age (in years) Experience (in years) Income (in K/month)  
## Min. : 1 Min. :23.00 Min. :-3.0 Min. : 8.00   
## 1st Qu.:1251 1st Qu.:35.00 1st Qu.:10.0 1st Qu.: 39.00   
## Median :2500 Median :45.00 Median :20.0 Median : 64.00   
## Mean :2500 Mean :45.34 Mean :20.1 Mean : 73.77   
## 3rd Qu.:3750 3rd Qu.:55.00 3rd Qu.:30.0 3rd Qu.: 98.00   
## Max. :5000 Max. :67.00 Max. :43.0 Max. :224.00   
##   
## ZIP Code Family members CCAvg Education   
## Min. : 9307 Min. :1.000 Min. : 0.000 Min. :1.000   
## 1st Qu.:91911 1st Qu.:1.000 1st Qu.: 0.700 1st Qu.:1.000   
## Median :93437 Median :2.000 Median : 1.500 Median :2.000   
## Mean :93153 Mean :2.397 Mean : 1.938 Mean :1.881   
## 3rd Qu.:94608 3rd Qu.:3.000 3rd Qu.: 2.500 3rd Qu.:3.000   
## Max. :96651 Max. :4.000 Max. :10.000 Max. :3.000   
## NA's :18   
## Mortgage Personal Loan Securities Account CD Account   
## Min. : 0.0 Min. :0.000 Min. :0.0000 Min. :0.0000   
## 1st Qu.: 0.0 1st Qu.:0.000 1st Qu.:0.0000 1st Qu.:0.0000   
## Median : 0.0 Median :0.000 Median :0.0000 Median :0.0000   
## Mean : 56.5 Mean :0.096 Mean :0.1044 Mean :0.0604   
## 3rd Qu.:101.0 3rd Qu.:0.000 3rd Qu.:0.0000 3rd Qu.:0.0000   
## Max. :635.0 Max. :1.000 Max. :1.0000 Max. :1.0000   
##   
## Online CreditCard   
## Min. :0.0000 Min. :0.000   
## 1st Qu.:0.0000 1st Qu.:0.000   
## Median :1.0000 Median :0.000   
## Mean :0.5968 Mean :0.294   
## 3rd Qu.:1.0000 3rd Qu.:1.000   
## Max. :1.0000 Max. :1.000   
##

#Missing Value Check

sum(is.na(Bank\_Full\_DS))

## [1] 18

colSums(is.na(Bank\_Full\_DS)) #18 missing values for family members.

## ID Age (in years) Experience (in years)   
## 0 0 0   
## Income (in K/month) ZIP Code Family members   
## 0 0 18   
## CCAvg Education Mortgage   
## 0 0 0   
## Personal Loan Securities Account CD Account   
## 0 0 0   
## Online CreditCard   
## 0 0

#Treating Missing Values

Bank\_Full\_DS[is.na(Bank\_Full\_DS)]=0 #I took an assumption that NAs or empty cells under family members variable, represent single customers, so I replaced these empty cells with Zeros.

#Removing Unnecessary Columns

Bank\_Full\_DS= Bank\_Full\_DS [,-1] #Removing Customer ID Column

#EDA - Basic data summary, Univariate, Bivariate analysis, graphs

library(tidyverse)

## -- Attaching packages --------------------------------------- tidyverse 1.2.1 --

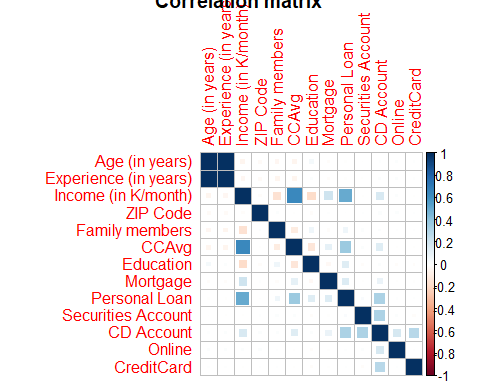
## v ggplot2 3.2.1 v purrr 0.3.2  
## v tibble 2.1.3 v dplyr 0.8.3  
## v tidyr 1.0.0 v stringr 1.4.0  
## v readr 1.3.1 v forcats 0.4.0

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(dplyr)  
library(corrplot)

## corrplot 0.84 loaded

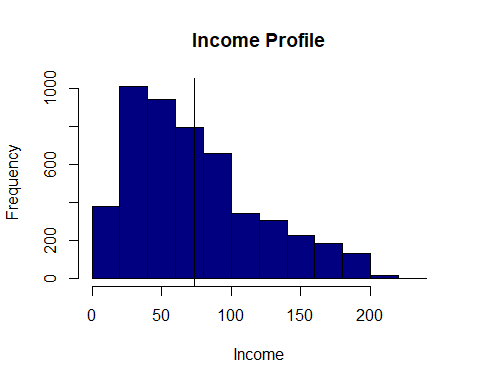
corrplot(cor(Bank\_Full\_DS),method = 'square', title = 'Correlation matrix')



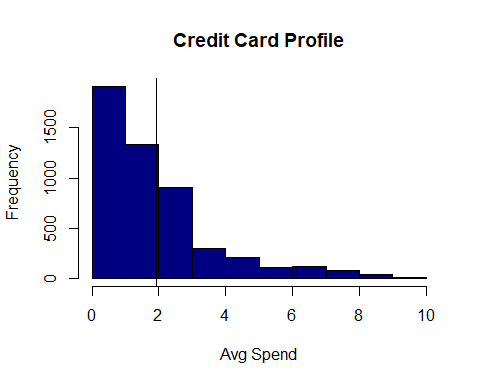
Loan\_Customers.profile= Bank\_Full\_DS %>% group\_by(Bank\_Full\_DS$`Personal Loan`)%>%  
 summarise(Avg.Income= mean(Bank\_Full\_DS$`Income (in K/month)`),  
 Avg.exp= mean(Bank\_Full\_DS$`Experience (in years)`),   
 Avg.CC= mean(Bank\_Full\_DS$CCAvg),   
 Med.CD = mode(Bank\_Full\_DS$`CD Account`))  
print(Loan\_Customers.profile)

## # A tibble: 2 x 5  
## `Bank\_Full\_DS$\`Personal Loan\`` Avg.Income Avg.exp Avg.CC Med.CD   
## <dbl> <dbl> <dbl> <dbl> <chr>   
## 1 0 73.8 20.1 1.94 numeric  
## 2 1 73.8 20.1 1.94 numeric

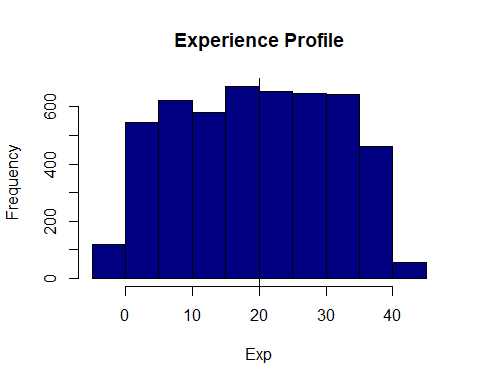
hist(Bank\_Full\_DS$`Income (in K/month)`, main = "Income Profile",col='Navy', xlab = 'Income')  
abline(v = mean(Bank\_Full\_DS$`Income (in K/month)`,col='Blue'))



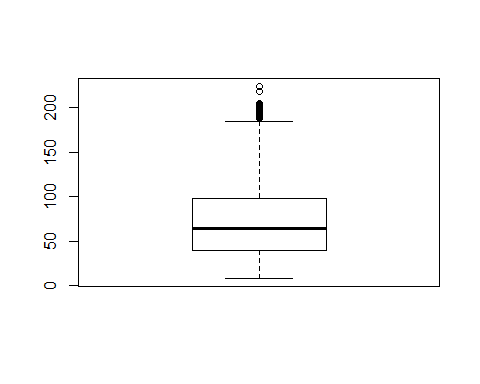
hist(Bank\_Full\_DS$CCAvg, main = "Credit Card Profile",col='Navy', xlab = 'Avg Spend')  
abline(v = mean(Bank\_Full\_DS$CCAvg,col='Blue'))



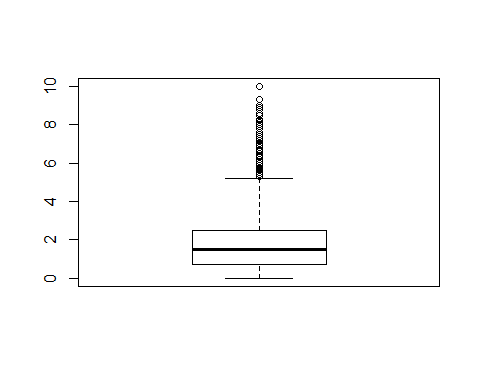
hist(Bank\_Full\_DS$`Experience (in years)`, main = "Experience Profile",col='Navy', xlab = 'Exp')  
abline(v = mean(Bank\_Full\_DS$`Experience (in years)`,col='Blue'))



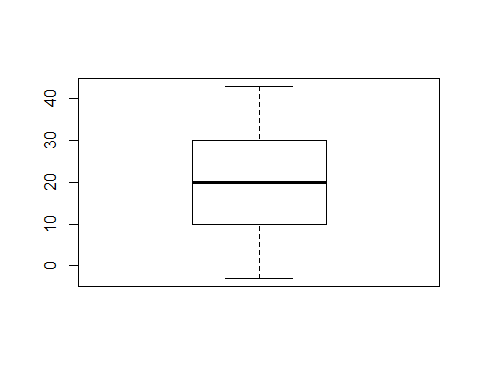
boxplot(Bank\_Full\_DS$`Income (in K/month)`)



boxplot(Bank\_Full\_DS$CCAvg)



boxplot(Bank\_Full\_DS$`Experience (in years)`)



#Split Dataset into Train 70% and Test 30%

library(caTools) #Call needed packages

## Warning: package 'caTools' was built under R version 3.6.2

set.seed(1000) #Setting a seed Conrtol Randomness   
spl= sample.split(Bank\_Full\_DS$`Personal Loan`,SplitRatio = 0.7) #Setting Split Ratio  
Train\_DS\_Bank = subset(Bank\_Full\_DS,spl==T) #Train 70%  
Test\_DS\_Bank = subset(Bank\_Full\_DS,spl== F) #Test 30%  
dim(Train\_DS\_Bank) #Checking Dimensions

## [1] 3500 13

dim(Test\_DS\_Bank) #Checking Dimensions

## [1] 1500 13

Test\_DS\_Bank\_OG =subset(Bank\_Full\_DS,spl== F)   
head(Test\_DS\_Bank\_OG)

## # A tibble: 6 x 13  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 45 19 34 90089 3  
## 2 53 27 72 91711 2  
## 3 34 9 180 93023 1  
## 4 48 23 114 93106 2  
## 5 67 41 112 91741 1  
## 6 60 30 22 95054 1  
## # ... with 8 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <dbl>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>

view(Test\_DS\_Bank)

# 2.1 Clustering and 2.2 interpretation

#I’ve selected K-means (Centroid based) Clustering, as it is less complicated and expensive to its adversary, hierarchal clustering.   
head(Train\_DS\_Bank)

## # A tibble: 6 x 13  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4  
## 2 39 15 11 94720 1  
## 3 35 9 100 94112 1  
## 4 35 8 45 91330 4  
## 5 37 13 29 92121 4  
## 6 50 24 22 93943 1  
## # ... with 8 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <dbl>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>

str(Train\_DS\_Bank)

## Classes 'tbl\_df', 'tbl' and 'data.frame': 3500 obs. of 13 variables:  
## $ Age (in years) : num 25 39 35 35 37 50 35 65 29 59 ...  
## $ Experience (in years): num 1 15 9 8 13 24 10 39 5 32 ...  
## $ Income (in K/month) : num 49 11 100 45 29 22 81 105 45 40 ...  
## $ ZIP Code : num 91107 94720 94112 91330 92121 ...  
## $ Family members : num 4 1 1 4 4 1 3 4 3 4 ...  
## $ CCAvg : num 1.6 1 2.7 1 0.4 0.3 0.6 2.4 0.1 2.5 ...  
## $ Education : num 1 1 2 2 2 3 2 3 2 2 ...  
## $ Mortgage : num 0 0 0 0 155 0 104 0 0 0 ...  
## $ Personal Loan : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ Securities Account : num 1 0 0 0 0 0 0 0 0 0 ...  
## $ CD Account : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ Online : num 0 0 0 0 1 0 1 0 1 1 ...  
## $ CreditCard : num 0 0 0 1 0 1 0 0 0 0 ...

Scale\_Train\_DS = scale(Train\_DS\_Bank) #Scale data to ensure that all columns has equal weights.   
str(Scale\_Train\_DS)

## num [1:3500, 1:13] -1.777 -0.553 -0.903 -0.903 -0.728 ...  
## - attr(\*, "dimnames")=List of 2  
## ..$ : NULL  
## ..$ : chr [1:13] "Age (in years)" "Experience (in years)" "Income (in K/month)" "ZIP Code" ...  
## - attr(\*, "scaled:center")= Named num [1:13] 45.32 20.08 73.85 93146.03 2.39 ...  
## ..- attr(\*, "names")= chr [1:13] "Age (in years)" "Experience (in years)" "Income (in K/month)" "ZIP Code" ...  
## - attr(\*, "scaled:scale")= Named num [1:13] 11.43 11.44 46.24 2265 1.15 ...  
## ..- attr(\*, "names")= chr [1:13] "Age (in years)" "Experience (in years)" "Income (in K/month)" "ZIP Code" ...

head(Scale\_Train\_DS) #view scaled Data

## Age (in years) Experience (in years) Income (in K/month) ZIP Code  
## [1,] -1.7774754 -1.6682479 -0.5373549 -0.9002337  
## [2,] -0.5526818 -0.4444415 -1.3591496 0.6949097  
## [3,] -0.9026228 -0.9689300 0.5655802 0.4264770  
## [4,] -0.9026228 -1.0563447 -0.6238596 -0.8017789  
## [5,] -0.7276523 -0.6192710 -0.9698785 -0.4525516  
## [6,] 0.4096559 0.3422912 -1.1212617 0.3518634  
## Family members CCAvg Education Mortgage Personal Loan  
## [1,] 1.400085 -0.1969802 -1.0494203 -0.5502293 -0.3258287  
## [2,] -1.200922 -0.5379927 -1.0494203 -0.5502293 -0.3258287  
## [3,] -1.200922 0.4282094 0.1462083 -0.5502293 -0.3258287  
## [4,] 1.400085 -0.5379927 0.1462083 -0.5502293 -0.3258287  
## [5,] 1.400085 -0.8790051 0.1462083 0.9553436 -0.3258287  
## [6,] -1.200922 -0.9358405 1.3418368 -0.5502293 -0.3258287  
## Securities Account CD Account Online CreditCard  
## [1,] 2.9302879 -0.2545235 -1.2194823 -0.6292677  
## [2,] -0.3411659 -0.2545235 -1.2194823 -0.6292677  
## [3,] -0.3411659 -0.2545235 -1.2194823 -0.6292677  
## [4,] -0.3411659 -0.2545235 -1.2194823 1.5886949  
## [5,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [6,] -0.3411659 -0.2545235 -1.2194823 1.5886949

print(Scale\_Train\_DS) #view scaled Data

## Age (in years) Experience (in years) Income (in K/month) ZIP Code  
## [1,] -1.77747537 -1.668247943 -0.537354901 -0.90023368  
## [2,] -0.55268183 -0.444441532 -1.359149647 0.69490970  
## [3,] -0.90262284 -0.968929994 0.565580152 0.42647704  
## [4,] -0.90262284 -1.056344738 -0.623859611 -0.80177894  
## [5,] -0.72765234 -0.619271020 -0.969878452 -0.45255159  
## [6,] 0.40965594 0.342291160 -1.121261694 0.35186336  
## [7,] -0.90262284 -0.881515250 0.154682779 -1.34968177  
## [8,] 1.72193473 1.653512315 0.673711040 0.69049468  
## [9,] -1.42753436 -1.318588969 -0.623859611 -1.26667957  
## [10,] 1.19702322 1.041609110 -0.731990499 0.78320991  
## [11,] -0.64016709 -0.531856276 1.214365478 0.82294501  
## [12,] -0.29022608 -0.182197301 0.154682779 0.51168675  
## [13,] 0.05971493 0.080046930 2.576814662 -0.68080765  
## [14,] 0.84708221 0.691950135 -1.142887872 0.69490970  
## [15,] 0.93456746 0.954194366 -1.056383162 0.38365144  
## [16,] 1.02205271 0.604535391 -0.234588416 -1.34703277  
## [17,] -1.42753436 -1.318588969 -0.256214593 -1.26667957  
## [18,] -0.11525557 -0.182197301 -0.667111966 -0.80619395  
## [19,] -0.20274082 -0.094782558 -0.969878452 0.51168675  
## [20,] -0.46519658 -0.357026789 0.197935134 0.84678606  
## [21,] 0.05971493 -0.007367814 1.819898449 -1.36071930  
## [22,] 0.93456746 0.866779622 -0.558981079 0.61499800  
## [23,] -0.64016709 -0.619271020 0.976477525 0.42294503  
## [24,] 1.19702322 1.303853340 -0.840121387 -0.01767304  
## [25,] 0.67211170 0.691950135 -0.710364321 0.73067128  
## [26,] -1.34004911 -1.231174225 -1.207766404 -0.80177894  
## [27,] -1.25256385 -1.318588969 -0.515728724 0.39248146  
## [28,] 0.23468544 0.342291160 0.154682779 -0.22032203  
## [29,] 1.19702322 1.303853340 1.019729880 0.69490970  
## [30,] -0.29022608 -0.182197301 1.452253431 0.42736005  
## [31,] -0.64016709 -0.619271020 0.133056602 0.42780155  
## [32,] -0.99010810 -0.968929994 -0.299466949 0.43089205  
## [33,] -1.16507860 -1.143759481 1.257617833 -1.38058685  
## [34,] 0.05971493 -0.007367814 0.652084862 0.40572649  
## [35,] 1.02205271 0.954194366 -0.472476369 0.69490970  
## [36,] -0.72765234 -0.706685763 2.598440839 -0.77970389  
## [37,] 0.93456746 0.517120648 0.154682779 1.14833130  
## [38,] -0.46519658 -0.357026789 -0.537354901 -0.34129332  
## [39,] -1.16507860 -1.056344738 -1.424028180 -0.46491362  
## [40,] 0.40965594 0.517120648 2.511936129 -1.28080760  
## [41,] -0.37771133 -0.269612045 1.409001076 0.38674195  
## [42,] 0.84708221 0.866779622 -0.969878452 0.37923643  
## [43,] -1.51501961 -1.580833200 0.414196910 0.40572649  
## [44,] 0.32217069 0.342291160 -0.753616676 -1.21060893  
## [45,] 0.14720019 0.080046930 1.106234590 0.11521879  
## [46,] -0.29022608 -0.182197301 -1.121261694 -1.34968177  
## [47,] -0.29022608 -0.269612045 -0.904999919 0.60793398  
## [48,] 0.14720019 0.254876417 0.673711040 -1.37837934  
## [49,] 1.45947897 1.391268084 0.673711040 1.11433571  
## [50,] 0.14720019 0.080046930 -0.299466949 0.11521879  
## [51,] 0.67211170 0.779364879 -1.164514049 -1.36910782  
## [52,] -0.29022608 -0.182197301 0.889972815 -0.79957144  
## [53,] -0.37771133 -0.357026789 0.241187490 0.64457857  
## [54,] -1.25256385 -1.143759481 1.322496366 0.77482139  
## [55,] 1.10953796 1.041609110 -1.337523470 -0.80619395  
## [56,] 0.75959695 0.866779622 1.279244011 0.07018568  
## [57,] 0.40965594 0.517120648 -1.186140227 0.69490970  
## [58,] 0.14720019 0.167461673 -0.731990499 0.64722758  
## [59,] -1.07759335 -0.968929994 -0.515728724 0.51168675  
## [60,] 0.05971493 0.167461673 -1.207766404 -0.62517851  
## [61,] -0.46519658 -0.357026789 -0.688738144 0.59822096  
## [62,] 0.23468544 0.167461673 0.089804247 0.51168675  
## [63,] 1.72193473 1.828341802 -0.494102546 0.42868455  
## [64,] -1.77747537 -1.843077430 0.846720460 0.51080375  
## [65,] 0.84708221 0.866779622 0.954851348 -1.26667957  
## [66,] -0.90262284 -0.881515250 -0.969878452 0.42338654  
## [67,] -0.20274082 -0.094782558 -0.861747564 0.51168675  
## [68,] 1.28450847 1.216438597 -0.212962238 0.61985451  
## [69,] -0.64016709 -0.706685763 -0.558981079 1.09093616  
## [70,] -0.37771133 -0.444441532 0.133056602 0.82471101  
## [71,] 0.75959695 0.691950135 1.884776981 -0.45255159  
## [72,] 0.32217069 0.254876417 0.435823087 -0.34085182  
## [73,] 1.80941998 1.828341802 -1.272644937 -0.63356703  
## [74,] 0.23468544 0.254876417 0.003299537 0.41234901  
## [75,] 1.37199372 1.391268084 -0.948252274 0.64546158  
## [76,] 0.93456746 1.041609110 -0.775242854 0.07283468  
## [77,] -1.86496062 -1.755662687 -0.840121387 0.68784568  
## [78,] -0.20274082 -0.269612045 -0.104831351 -0.18941695  
## [79,] -0.29022608 -0.182197301 -0.667111966 -0.48963768  
## [80,] -1.07759335 -1.143759481 -0.904999919 0.87857414  
## [81,] -0.37771133 -0.531856276 -1.402402002 -0.80177894  
## [82,] 1.45947897 1.566097571 -0.623859611 0.44016358  
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## [3488,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3489,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3490,] -0.3411659 3.9277876 0.8197858 1.5886949  
## [3491,] -0.3411659 -0.2545235 -1.2194823 1.5886949  
## [3492,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3493,] -0.3411659 -0.2545235 -1.2194823 -0.6292677  
## [3494,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3495,] -0.3411659 -0.2545235 -1.2194823 1.5886949  
## [3496,] -0.3411659 -0.2545235 -1.2194823 1.5886949  
## [3497,] -0.3411659 -0.2545235 -1.2194823 -0.6292677  
## [3498,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3499,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## [3500,] -0.3411659 -0.2545235 0.8197858 -0.6292677  
## attr(,"scaled:center")  
## Age (in years) Experience (in years) Income (in K/month)   
## 4.531743e+01 2.008429e+01 7.384743e+01   
## ZIP Code Family members CCAvg   
## 9.314603e+04 2.385143e+00 1.946580e+00   
## Education Mortgage Personal Loan   
## 1.877714e+00 5.664657e+01 9.600000e-02   
## Securities Account CD Account Online   
## 1.042857e-01 6.085714e-02 5.980000e-01   
## CreditCard   
## 2.837143e-01   
## attr(,"scaled:scale")  
## Age (in years) Experience (in years) Income (in K/month)   
## 11.4304980 11.4397178 46.2402567   
## ZIP Code Family members CCAvg   
## 2265.0001601 1.1533997 1.7594664   
## Education Mortgage Personal Loan   
## 0.8363802 102.9508380 0.2946333   
## Securities Account CD Account Online   
## 0.3056745 0.2391022 0.4903720   
## CreditCard   
## 0.4508642

# K-means clustering before finetuning

set.seed (1000)  
Clust\_2 = kmeans(x=Scale\_Train\_DS,centers = 2, nstart = 5) #Setting up my clusters, at a random number of centers  
print(Clust\_2) #views results

## K-means clustering with 2 clusters of sizes 2834, 666  
##   
## Cluster means:  
## Age (in years) Experience (in years) Income (in K/month) ZIP Code  
## 1 0.02631372 0.02212001 -0.3645286 0.002310730  
## 2 -0.11197159 -0.09412629 1.5511623 -0.009832746  
## Family members CCAvg Education Mortgage Personal Loan  
## 1 0.06654108 -0.3308262 0.0597214 -0.1187417 -0.3258287  
## 2 -0.28314929 1.4077498 -0.2541298 0.5052761 1.3864843  
## Securities Account CD Account Online CreditCard  
## 1 -0.02371713 -0.1394140 -0.004124589 -0.01177562  
## 2 0.10092245 0.5932423 0.017551178 0.05010825  
##   
## Clustering vector:  
## [1] 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 2 1 1 2 2 1 2 1  
## [38] 1 1 2 2 1 1 1 2 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1  
## [75] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1  
## [112] 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1  
## [149] 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 2 1 1 1 1 1 2 1 1  
## [186] 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 2 2 1 1 1 1 2 1 1 1 1 2  
## [223] 1 1 1 2 2 2 1 1 2 1 1 1 2 1 2 1 1 1 1 1 2 2 1 2 1 1 2 1 1 1 1 1 1 2 1 1 1  
## [260] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1  
## [297] 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 2 2 1 2 1  
## [334] 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1  
## [371] 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 2 1 1  
## [408] 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 2 2 1 1 1  
## [445] 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 2 1 1 2 1 1 1 1 1 2  
## [482] 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 2 1 2 2 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1  
## [519] 2 1 1 1 1 1 1 1 1 1 2 1 2 2 1 2 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 1 1 2 1  
## [556] 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1  
## [593] 1 2 1 1 1 1 1 1 1 1 2 2 1 1 1 2 1 1 1 1 2 2 1 1 2 1 1 1 1 2 1 2 1 1 1 2 1  
## [630] 2 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1  
## [667] 1 2 1 1 1 2 1 1 1 1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1  
## [704] 1 2 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 2  
## [741] 1 2 1 2 1 1 1 1 1 1 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2  
## [778] 1 1 2 1 1 1 1 1 1 1 2 2 1 2 2 2 1 1 1 1 2 1 2 1 1 1 2 2 1 1 1 1 1 1 1 1 2  
## [815] 2 2 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [852] 1 2 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [889] 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 2 1 1 1 1 2 2 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1  
## [926] 2 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 2 2 1 1 1  
## [963] 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 2 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1  
## [1000] 1 2 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1  
## [1037] 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 2 1 1 1 1 1 2 1 1 1 1 1 1  
## [1074] 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 2 1 1 2 2 1 1 1 1 2 1 1  
## [1111] 2 1 1 1 1 2 2 2 1 1 1 1 1 2 1 2 1 1 1 2 1 1 2 1 1 2 1 2 2 1 1 1 2 1 1 1 1  
## [1148] 1 1 1 1 1 2 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1 2 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1  
## [1185] 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1  
## [1222] 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 2 2 1 1 2 2 1 1 1 1  
## [1259] 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 2 1 2 1 2 1 2 2 1 1 1 2 1 1 1 1 1 1 1  
## [1296] 1 1 1 1 1 2 2 1 1 1 1 2 1 1 2 1 1 2 2 2 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1  
## [1333] 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [1370] 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1 2 1 1  
## [1407] 1 1 1 1 2 1 1 1 1 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 2 2 1 1 1  
## [1444] 1 2 1 1 1 2 1 2 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1  
## [1481] 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 2 1 2 1 1 1 1 1  
## [1518] 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [1555] 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 2 2 1 1 2 2 2 1 1 1  
## [1592] 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1  
## [1629] 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1  
## [1666] 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 1  
## [1703] 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1  
## [1740] 1 1 2 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 2 1  
## [1777] 2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 2 1 2 1 1 1 2 2  
## [1814] 2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1  
## [1851] 1 1 2 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 1 1 1  
## [1888] 1 2 1 1 2 2 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [1925] 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 1 2 1 1 2 2 1 2 2 1 1 1 1 1 1  
## [1962] 2 1 2 1 1 1 1 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1  
## [1999] 1 2 2 2 1 1 1 1 1 2 1 1 2 1 2 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 2 1 2 1  
## [2036] 1 1 1 1 1 1 1 1 1 2 2 1 1 2 1 2 1 1 2 1 1 1 2 2 1 1 1 2 1 2 1 1 1 1 1 1 1  
## [2073] 1 2 2 1 1 1 1 2 1 1 1 1 1 2 1 2 1 1 1 1 1 1 2 1 1 1 2 2 1 1 1 1 1 2 2 1 1  
## [2110] 1 1 1 1 2 2 1 1 2 1 1 1 2 1 2 1 1 2 2 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1  
## [2147] 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1  
## [2184] 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1  
## [2221] 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2  
## [2258] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1  
## [2295] 2 1 1 1 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 2 2 1 1 1 2  
## [2332] 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 2 1 1 1 2 2 1 2 1 1 1 1 2 1 1 1 1 2  
## [2369] 1 1 2 1 1 2 2 2 2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1  
## [2406] 1 2 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 1 2 1 1 1 1 2 2 1 2 1 1 2 2 2 1  
## [2443] 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1  
## [2480] 1 1 1 1 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 2 1 1 2 2 1 1 1 1 1  
## [2517] 1 2 1 1 1 1 1 1 1 1 1 2 1 2 2 1 1 2 2 2 2 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1  
## [2554] 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 2 1 1 1 1 1 1 1 2 1 2 1 1  
## [2591] 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1  
## [2628] 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1  
## [2665] 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 1 2 1 1  
## [2702] 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [2739] 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1  
## [2776] 1 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1  
## [2813] 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1 1 2 1 2 1 2 1  
## [2850] 1 1 2 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1  
## [2887] 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 2 1 1 1 1 2 1 1 2 1 1 1 1  
## [2924] 2 1 2 1 2 1 2 1 2 1 1 1 1 2 1 2 2 2 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1  
## [2961] 2 1 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1  
## [2998] 2 1 1 1 2 1 1 1 1 2 1 2 2 1 2 1 1 1 1 1 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 1 1  
## [3035] 1 1 1 2 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 2 1 1 1 1  
## [3072] 2 1 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 2 1 1 1 1 1  
## [3109] 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2  
## [3146] 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1  
## [3183] 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1  
## [3220] 2 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 2 2 2 1 1 1 1 1  
## [3257] 1 1 2 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1  
## [3294] 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 2 2 1 1  
## [3331] 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1  
## [3368] 1 1 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1  
## [3405] 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2  
## [3442] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
## [3479] 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1  
##   
## Within cluster sum of squares by cluster:  
## [1] 27869.70 11780.18  
## (between\_SS / total\_SS = 12.8 %)  
##   
## Available components:  
##   
## [1] "cluster" "centers" "totss" "withinss" "tot.withinss"  
## [6] "betweenss" "size" "iter" "ifault"

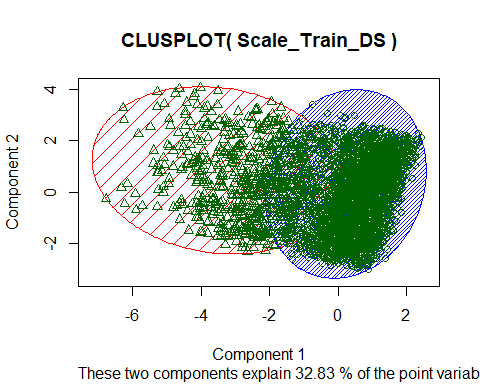
#Within cluster sum of squares by cluster:  
 #[1] 27869.70 11780.18  
 #(between\_SS / total\_SS = 12.8 %)

# plot K-means clustering

library(cluster)

## Warning: package 'cluster' was built under R version 3.6.2

clusplot(Scale\_Train\_DS,Clust\_2$cluster,color = T, shade = T ,lines =1) #The two clusters only explained ~33% of the point variability

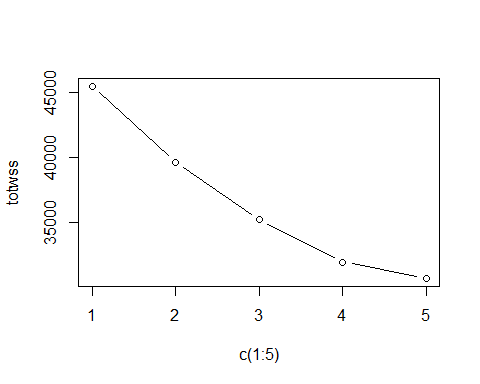


# To improve model output, we need to find the right number for clusters

#running 5 trials for no. of k with the least tot.withinss  
totwss = rep(0,5)  
for (k in 1:5) {set.seed(1000)   
 clust = kmeans(x=Scale\_Train\_DS,centers = k, nstart = 5)  
 totwss[k] = clust$tot.withinss}  
print(totwss)

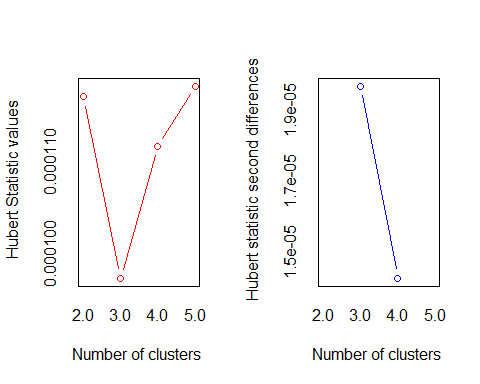
## [1] 45487.00 39649.88 35210.46 31952.82 30697.88

plot (c(1:5),totwss, type = "b") #elbow method to identify the right number of clusters, plateau at 4

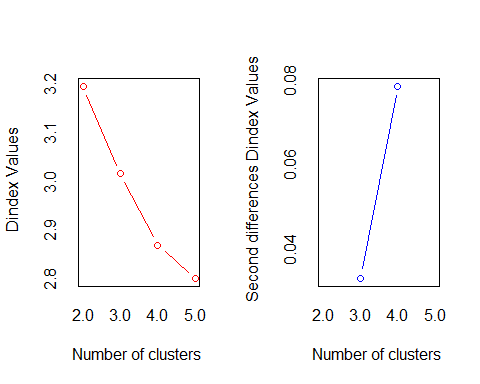


#Another way to find the right number of clusters, by through NbClust library

library(NbClust)  
set.seed(1000)  
nc = NbClust(Scale\_Train\_DS,min.nc=2,max.nc=5,method ="kmeans")



## \*\*\* : The Hubert index is a graphical method of determining the number of clusters.  
## In the plot of Hubert index, we seek a significant knee that corresponds to a   
## significant increase of the value of the measure i.e the significant peak in Hubert  
## index second differences plot.   
##



## \*\*\* : The D index is a graphical method of determining the number of clusters.   
## In the plot of D index, we seek a significant knee (the significant peak in Dindex  
## second differences plot) that corresponds to a significant increase of the value of  
## the measure.   
##   
## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   
## \* Among all indices:   
## \* 9 proposed 2 as the best number of clusters   
## \* 4 proposed 3 as the best number of clusters   
## \* 9 proposed 4 as the best number of clusters   
## \* 2 proposed 5 as the best number of clusters   
##   
## \*\*\*\*\* Conclusion \*\*\*\*\*   
##   
## \* According to the majority rule, the best number of clusters is 2   
##   
##   
## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Clust\_4 = kmeans(x=Scale\_Train\_DS,centers = 4, nstart = 5)   
print(Clust\_4)

## K-means clustering with 4 clusters of sizes 1359, 1324, 315, 502  
##   
## Cluster means:  
## Age (in years) Experience (in years) Income (in K/month) ZIP Code  
## 1 0.87759583 0.87166816 -0.3074713 -0.057838263  
## 2 -0.86343949 -0.86197238 -0.2488643 0.069876227  
## 3 0.03888511 0.03092817 -0.2283409 0.009624345  
## 4 -0.12292360 -0.10575293 1.6320264 -0.033756163  
## Family members CCAvg Education Mortgage Personal Loan  
## 1 -0.01238246 -0.3018727 0.01863939 -0.06158015 -0.3258287  
## 2 0.03933653 -0.2513687 0.01075188 -0.10290058 -0.3258287  
## 3 0.07343371 -0.1817699 -0.03218708 -0.04682987 -0.2935044  
## 4 -0.11630560 1.5942524 -0.05862050 0.46748846 1.9256022  
## Securities Account CD Account Online CreditCard  
## 1 -0.34116589 -0.1960512 0.01398227 0.012129898  
## 2 -0.34116589 -0.2008231 -0.03658361 -0.029546669  
## 3 2.93028788 0.6483246 0.04939561 -0.002605226  
## 4 -0.01532388 0.6535879 0.02763980 0.046724909  
##   
## Clustering vector:  
## [1] 3 2 2 2 2 1 2 1 2 1 4 2 4 3 1 1 2 3 2 2 1 1 4 1 1 2 2 1 1 4 2 2 4 4 1 4 1  
## [38] 2 3 4 4 3 2 3 3 2 2 1 1 1 1 2 2 4 1 4 1 1 2 1 2 1 1 2 4 2 2 3 2 2 1 1 1 1  
## [75] 1 1 3 2 2 2 2 1 2 1 2 1 2 1 1 2 1 2 2 2 2 4 2 1 1 1 2 2 2 1 4 2 1 1 1 3 1  
## [112] 2 2 2 3 4 2 2 2 2 2 1 2 4 1 4 2 1 1 2 1 4 1 1 1 1 4 2 2 2 1 1 2 3 2 1 2 1  
## [149] 4 2 2 2 2 2 1 1 2 4 3 1 2 2 1 2 2 1 1 2 4 2 2 2 1 4 1 1 4 1 2 1 2 1 4 1 2  
## [186] 1 1 2 2 3 2 1 2 2 1 2 3 2 1 4 2 2 2 2 1 2 1 4 3 4 4 4 1 1 1 2 4 1 3 2 2 4  
## [223] 2 1 1 4 4 4 1 1 4 1 1 1 1 1 2 2 2 1 2 3 4 4 3 4 1 1 4 2 1 2 2 2 1 4 1 1 2  
## [260] 2 1 1 2 2 2 1 1 1 2 1 2 2 2 4 2 1 1 1 2 4 1 2 1 1 3 2 1 2 2 1 4 3 4 1 2 2  
## [297] 2 1 2 1 2 1 4 1 3 4 1 1 1 2 1 2 2 3 1 2 1 2 1 4 4 4 1 2 1 2 1 2 4 1 1 4 1  
## [334] 2 4 2 2 1 3 2 1 2 1 4 2 1 1 2 2 2 4 1 1 4 1 2 2 2 2 1 2 2 1 1 1 2 1 4 2 1  
## [371] 1 2 2 2 2 2 1 4 2 3 3 1 1 1 1 2 2 3 2 1 1 2 2 4 2 2 1 4 1 1 1 2 2 2 1 2 2  
## [408] 2 4 1 2 1 2 1 2 4 2 2 1 1 1 3 4 2 1 2 2 2 2 1 2 4 2 4 1 3 1 2 1 3 4 1 2 1  
## [445] 3 2 4 2 2 1 4 1 2 1 1 4 1 1 3 3 3 1 1 4 1 2 1 2 4 1 1 4 1 2 4 1 2 1 2 2 2  
## [482] 2 1 2 1 2 2 2 4 1 2 3 2 1 1 3 4 1 1 4 1 4 4 2 2 1 1 2 1 2 3 3 1 2 1 2 1 1  
## [519] 2 1 1 3 1 2 2 1 2 3 4 3 4 2 1 4 1 1 4 4 4 3 4 4 3 1 1 2 1 2 2 2 4 1 1 4 1  
## [556] 1 2 1 4 2 1 1 1 1 1 2 1 2 2 2 4 1 2 2 2 2 1 2 1 2 1 2 2 3 1 1 1 4 1 1 1 1  
## [593] 1 3 2 1 2 1 2 2 2 1 4 1 1 2 2 4 2 2 1 2 3 4 1 1 4 1 2 3 1 2 1 4 1 2 3 4 2  
## [630] 4 3 2 2 3 1 3 2 2 4 2 1 2 2 3 1 1 4 3 3 3 4 1 2 2 1 2 1 2 2 3 4 2 1 1 1 1  
## [667] 2 4 1 2 1 4 2 2 3 1 1 1 4 1 1 1 4 1 1 2 2 2 2 2 2 1 3 1 2 2 1 3 1 4 3 1 1  
## [704] 2 4 3 2 2 4 4 1 2 2 1 1 1 3 4 4 2 1 1 1 2 1 1 2 4 3 2 1 1 2 1 2 1 1 4 1 4  
## [741] 2 1 3 4 2 2 1 2 2 2 4 3 1 1 2 4 3 2 1 1 2 2 3 2 1 1 2 1 2 2 2 2 1 1 1 1 1  
## [778] 2 1 4 2 2 2 2 2 2 2 4 4 2 4 4 1 1 2 3 3 4 3 4 2 3 2 2 4 3 1 2 1 1 2 1 3 4  
## [815] 2 4 4 4 2 2 1 3 2 2 4 2 3 2 2 1 2 2 1 3 3 2 2 1 2 2 3 2 2 1 2 2 2 1 3 2 1  
## [852] 2 4 2 1 4 1 2 1 1 2 3 2 1 1 2 4 2 1 1 3 2 2 4 1 2 1 1 2 1 2 2 1 2 1 1 2 1  
## [889] 3 2 2 1 2 4 1 1 2 1 2 1 4 2 1 4 2 2 3 1 2 4 2 2 4 1 1 2 1 2 1 2 2 3 1 1 3  
## [926] 4 2 2 2 2 1 1 2 1 4 2 2 3 1 2 1 2 4 1 1 4 1 1 1 1 2 2 1 1 1 1 1 4 4 1 2 1  
## [963] 2 2 3 1 2 2 2 2 1 4 2 1 2 2 2 4 3 1 4 4 2 4 1 3 2 2 2 4 2 2 2 1 2 1 2 2 2  
## [1000] 2 4 1 1 2 1 2 3 2 1 3 4 1 4 1 2 1 2 1 2 2 1 2 2 4 1 1 1 2 1 2 1 3 2 4 2 2  
## [1037] 1 2 2 2 1 2 1 4 4 3 1 2 1 2 3 1 1 4 2 1 2 1 4 1 4 2 2 2 2 1 3 3 1 1 1 1 1  
## [1074] 2 1 1 1 3 2 4 4 1 3 1 2 2 2 1 1 1 1 1 4 2 3 1 4 3 4 2 1 4 4 1 1 1 2 4 1 2  
## [1111] 4 1 3 3 3 4 2 4 2 3 2 1 2 3 1 3 1 2 2 1 3 1 4 1 3 4 2 4 4 1 1 1 4 2 2 2 3  
## [1148] 1 2 1 2 2 4 4 2 2 2 2 1 2 2 4 2 3 2 2 4 2 4 3 1 2 1 4 1 2 1 1 2 3 1 1 1 2  
## [1185] 1 1 1 1 4 1 2 1 1 1 1 2 1 2 4 2 4 1 1 3 2 1 1 1 1 2 2 1 3 3 2 1 2 3 1 2 1  
## [1222] 1 1 1 4 1 2 2 2 2 2 4 1 1 1 1 1 1 2 2 1 2 4 2 3 2 4 3 4 4 1 1 4 4 2 3 1 3  
## [1259] 1 1 1 1 3 1 2 2 1 3 3 2 2 1 1 4 2 4 4 1 1 2 4 1 4 1 2 2 2 4 1 2 1 2 3 1 2  
## [1296] 1 1 2 2 1 4 3 2 1 1 1 2 1 2 3 3 2 4 1 4 2 1 2 4 2 1 3 1 1 1 4 2 1 2 2 2 1  
## [1333] 1 4 1 3 1 1 4 1 1 2 1 1 2 2 2 1 2 1 2 4 1 4 2 1 2 1 1 3 1 1 2 2 2 2 2 1 2  
## [1370] 1 4 1 2 1 1 2 1 2 1 2 2 2 2 3 2 1 1 2 2 2 1 1 1 2 4 2 1 1 1 2 4 4 2 4 1 1  
## [1407] 1 1 1 2 4 2 3 3 3 4 1 4 3 2 2 2 3 1 3 1 1 2 2 2 4 1 2 4 2 1 1 1 4 4 2 2 2  
## [1444] 2 3 2 1 2 2 2 4 4 1 1 1 2 1 2 1 1 4 2 2 1 2 2 1 4 1 3 1 1 4 1 2 1 2 4 2 2  
## [1481] 1 2 3 4 2 2 1 2 2 2 1 2 2 2 2 1 2 1 1 2 1 3 4 1 2 1 1 4 2 2 2 1 3 2 2 3 2  
## [1518] 1 1 1 2 2 2 2 4 2 2 2 4 1 2 1 2 2 2 1 4 1 1 1 2 1 1 3 2 1 2 1 1 1 1 2 1 1  
## [1555] 1 2 1 1 1 1 1 2 4 2 1 3 3 1 1 1 4 1 4 2 1 1 1 1 1 1 2 4 4 2 1 2 4 4 2 1 2  
## [1592] 2 2 4 1 2 1 1 4 1 2 2 2 4 2 1 1 1 1 2 4 1 4 1 2 2 2 1 1 1 3 4 4 1 2 2 1 2  
## [1629] 3 2 2 1 2 3 1 2 2 1 2 2 1 1 1 1 1 2 4 3 2 3 2 1 2 3 1 2 2 2 3 3 1 4 3 4 2  
## [1666] 2 4 2 2 2 4 2 2 1 3 3 2 1 2 2 2 4 1 1 1 2 2 2 2 1 2 1 4 2 1 1 1 1 2 2 4 1  
## [1703] 1 2 4 1 2 2 2 2 1 4 2 1 1 2 2 1 2 1 1 2 3 4 4 1 1 1 1 1 4 1 2 1 2 3 3 1 1  
## [1740] 3 2 4 2 2 1 1 2 4 3 2 2 2 1 1 3 2 1 4 1 1 1 1 1 4 1 2 2 2 1 1 1 1 4 1 4 1  
## [1777] 4 1 4 1 1 3 2 2 2 2 2 2 2 4 1 2 2 2 2 2 1 2 2 1 4 4 1 2 2 4 1 4 1 1 1 4 2  
## [1814] 4 1 2 2 4 1 2 1 1 3 1 2 2 1 4 2 2 2 2 1 4 1 1 1 2 1 1 1 1 2 2 4 1 1 4 1 1  
## [1851] 2 2 4 4 2 1 3 2 2 1 1 1 4 2 2 3 1 1 4 1 2 2 3 2 4 1 3 1 1 1 2 1 4 1 2 2 1  
## [1888] 1 4 2 1 4 2 1 2 4 1 1 2 2 4 4 2 2 3 1 1 1 1 1 1 2 1 3 2 2 1 1 1 2 2 2 1 2  
## [1925] 2 1 1 2 2 3 1 2 2 1 1 2 1 1 4 4 2 4 4 4 2 4 1 4 2 1 4 4 2 4 3 1 1 1 1 1 1  
## [1962] 4 2 4 1 1 1 2 4 1 2 1 2 2 1 2 3 1 2 2 2 2 1 1 4 1 3 2 2 1 3 2 1 1 2 1 1 2  
## [1999] 1 4 4 4 2 1 2 1 1 1 1 1 3 1 4 2 2 4 1 1 1 2 1 1 2 4 2 1 1 3 4 2 3 4 2 4 2  
## [2036] 2 1 2 2 1 1 1 1 1 2 4 2 2 4 1 4 1 1 4 1 1 2 4 4 2 2 2 4 1 4 1 1 2 1 2 2 2  
## [2073] 2 4 3 1 1 2 1 3 1 1 1 1 1 4 2 4 3 3 1 1 1 1 4 2 1 2 4 4 1 1 2 2 1 4 1 1 3  
## [2110] 1 1 1 1 4 1 1 1 1 2 1 1 3 1 4 1 2 4 4 2 2 1 2 1 2 3 1 1 1 1 2 4 2 1 3 2 3  
## [2147] 2 1 1 3 3 1 3 2 1 2 2 2 3 1 2 4 1 1 1 2 1 3 2 1 4 1 2 1 1 1 1 2 2 2 2 3 2  
## [2184] 2 2 1 1 2 2 4 1 1 2 3 3 1 3 2 1 3 1 2 1 2 2 1 1 2 2 2 3 1 4 2 2 4 2 1 1 2  
## [2221] 2 2 2 1 2 1 2 2 2 2 3 2 4 2 2 1 1 1 2 2 1 2 2 2 2 1 2 3 1 1 1 1 3 2 1 2 4  
## [2258] 2 1 1 2 3 1 2 2 2 1 3 1 1 2 1 2 1 2 1 1 2 1 3 1 2 2 1 3 1 1 2 2 1 2 4 2 2  
## [2295] 2 2 1 1 2 1 2 1 2 4 1 1 3 3 4 4 1 1 1 1 2 2 1 2 1 1 1 4 1 1 4 4 2 1 3 1 4  
## [2332] 4 1 2 1 2 2 1 3 2 3 2 4 2 2 2 1 1 1 2 1 2 2 1 4 3 1 4 2 1 2 2 4 1 2 3 2 4  
## [2369] 1 2 2 2 1 2 3 4 4 3 4 1 1 2 2 1 2 2 2 4 2 1 1 2 1 2 2 1 1 2 1 2 1 2 1 1 2  
## [2406] 2 4 2 1 3 2 2 2 3 2 2 1 4 4 2 1 1 2 1 2 4 1 4 2 1 1 2 4 4 2 1 1 1 3 2 4 2  
## [2443] 3 1 3 4 2 2 2 2 4 1 1 2 2 1 4 1 1 3 2 3 2 4 2 2 2 1 2 2 1 1 1 2 2 1 1 2 2  
## [2480] 3 2 1 2 3 4 4 2 1 1 2 2 2 1 2 1 1 2 2 4 2 1 1 3 1 4 2 4 1 2 4 3 2 2 1 2 1  
## [2517] 2 2 1 2 1 2 2 1 2 3 1 4 2 4 2 2 1 4 4 4 4 2 2 2 1 1 1 2 2 2 1 2 4 1 1 2 2  
## [2554] 1 4 1 1 3 1 1 3 2 2 1 1 4 2 1 1 2 2 4 2 2 1 1 2 4 2 1 2 3 1 1 1 4 2 2 1 1  
## [2591] 1 2 4 2 1 2 1 1 2 2 2 3 1 1 3 1 2 2 1 2 1 1 1 2 1 1 2 2 3 2 2 2 2 3 4 2 2  
## [2628] 2 2 1 2 1 2 1 2 4 2 1 4 1 2 1 2 1 2 4 4 2 1 1 1 1 2 2 2 3 1 1 1 1 4 1 3 1  
## [2665] 4 1 2 1 1 1 3 2 1 2 2 2 2 4 4 1 1 2 1 2 2 4 4 1 3 2 4 2 2 3 2 1 2 1 4 2 2  
## [2702] 3 2 1 2 1 4 1 2 2 2 1 1 3 2 2 3 1 2 1 4 1 3 2 2 2 2 1 2 2 2 2 2 2 1 3 2 2  
## [2739] 2 2 2 2 4 1 1 2 1 2 1 3 1 1 2 1 2 2 2 2 2 1 2 1 3 4 2 1 1 2 1 2 2 1 2 1 2  
## [2776] 1 2 1 4 2 2 3 2 1 2 1 4 1 1 2 2 2 2 1 2 1 1 3 1 3 2 2 4 1 4 3 1 1 2 2 1 1  
## [2813] 1 2 1 4 1 1 1 1 1 4 4 1 2 1 1 2 4 2 1 1 4 2 4 2 1 4 1 3 2 1 2 4 1 2 3 4 1  
## [2850] 3 2 2 3 1 2 1 1 2 1 4 2 1 1 2 1 1 1 3 2 2 1 1 1 3 2 1 2 4 2 2 3 2 3 4 2 2  
## [2887] 4 3 2 2 1 2 1 2 2 2 2 4 1 3 1 2 2 4 3 2 2 1 1 1 4 1 2 1 1 2 2 2 3 2 1 2 1  
## [2924] 1 1 4 2 4 2 4 1 4 2 2 2 1 4 2 4 4 4 4 1 1 2 4 1 1 4 3 1 1 4 2 1 2 1 3 1 2  
## [2961] 1 1 2 1 2 1 1 4 1 1 3 1 1 3 4 2 1 4 1 3 1 1 1 2 1 1 2 2 1 1 1 4 1 1 1 3 2  
## [2998] 4 1 1 2 4 1 3 2 1 2 2 3 4 1 4 1 1 2 1 1 4 2 2 1 4 4 2 1 2 4 4 4 2 1 2 1 1  
## [3035] 2 1 2 4 1 3 1 1 2 4 1 2 3 3 4 1 1 2 1 2 2 1 4 2 2 4 2 1 1 2 2 2 4 3 1 2 1  
## [3072] 2 2 4 2 2 3 1 4 3 1 1 1 1 1 2 3 1 2 1 1 2 2 2 2 4 1 1 4 2 2 4 2 2 3 1 2 2  
## [3109] 1 1 1 2 4 2 1 1 2 1 1 1 1 1 1 2 3 2 1 1 2 1 1 2 1 2 1 3 1 1 1 1 2 2 4 2 1  
## [3146] 2 2 2 2 3 1 4 2 1 3 1 3 1 1 2 3 2 2 2 1 1 2 2 1 1 1 2 1 2 2 3 2 1 4 1 2 1  
## [3183] 1 1 1 1 3 1 2 3 1 1 1 3 2 3 2 2 1 3 1 2 3 3 2 1 2 1 4 1 1 2 1 2 4 2 2 2 2  
## [3220] 4 1 2 2 1 1 1 2 1 4 4 1 2 1 2 2 1 1 2 1 2 2 1 1 3 2 4 1 4 4 4 4 1 2 2 2 2  
## [3257] 1 2 4 2 2 2 2 1 1 4 2 3 2 4 1 1 2 1 2 2 1 2 1 4 1 2 3 2 4 2 1 1 1 1 1 2 1  
## [3294] 1 1 1 1 4 1 2 4 1 3 1 2 2 1 2 2 1 3 2 3 3 3 2 2 2 3 1 1 2 1 1 2 1 1 1 1 1  
## [3331] 2 1 2 4 3 3 1 1 1 2 1 1 2 2 2 2 1 1 2 1 2 1 2 1 3 4 2 1 2 1 1 1 3 2 2 2 2  
## [3368] 1 1 4 2 2 1 4 4 1 1 1 2 1 4 1 2 1 1 1 1 2 1 4 2 2 4 2 1 3 3 2 1 2 1 1 1 2  
## [3405] 2 2 1 2 1 4 1 2 2 1 1 3 4 1 1 2 1 1 3 3 3 2 2 1 1 2 2 2 2 1 1 1 2 4 2 1 4  
## [3442] 2 1 1 3 1 2 2 2 2 2 1 1 1 1 1 2 1 2 4 1 1 4 4 2 2 1 2 2 1 1 2 1 3 2 1 3 1  
## [3479] 2 2 2 2 2 2 3 2 2 2 1 4 2 1 2 1 1 1 2 1 2 2  
##   
## Within cluster sum of squares by cluster:  
## [1] 10942.417 9187.524 3679.789 8752.178  
## (between\_SS / total\_SS = 28.4 %)  
##   
## Available components:  
##   
## [1] "cluster" "centers" "totss" "withinss" "tot.withinss"  
## [6] "betweenss" "size" "iter" "ifault"

Train\_DS\_Bank$Cluster= Clust\_2$cluster  
View(Train\_DS\_Bank)  
custprofile = aggregate(Train\_DS\_Bank,list(Train\_DS\_Bank$Cluster), FUN = 'mean')  
print(custprofile)

## Group.1 Age (in years) Experience (in years) Income (in K/month) ZIP Code  
## 1 1 45.61821 20.33733 56.99153 93151.26  
## 2 2 44.03754 19.00751 145.57357 93123.76  
## Family members CCAvg Education Mortgage Personal Loan Securities Account  
## 1 2.461891 1.364502 1.927664 44.42202 0.0000000 0.09703599  
## 2 2.058559 4.423468 1.665165 108.66517 0.5045045 0.13513514  
## CD Account Online CreditCard Cluster  
## 1 0.02752294 0.5959774 0.2784051 1  
## 2 0.20270270 0.6066066 0.3063063 2

#Building Model 1 - CART #CART Decision Tree - CART

Train\_DS\_Bank\_OG=Train\_DS\_Bank[,-14]   
View(Train\_DS\_Bank\_OG)  
head(Train\_DS\_Bank\_OG)

## # A tibble: 6 x 13  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4  
## 2 39 15 11 94720 1  
## 3 35 9 100 94112 1  
## 4 35 8 45 91330 4  
## 5 37 13 29 92121 4  
## 6 50 24 22 93943 1  
## # ... with 8 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <dbl>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>

nrow(Train\_DS\_Bank\_OG)

## [1] 3500

sum(Train\_DS\_Bank\_OG$`Personal Loan`=="1")/nrow(Train\_DS\_Bank\_OG)\*100 #Checking the percentage from my data who accepted the loan offer ~9.6%

## [1] 9.6

#CART Install library

library(rpart)

## Warning: package 'rpart' was built under R version 3.6.2

library(rpart.plot)

## Warning: package 'rpart.plot' was built under R version 3.6.2

Train\_DS\_Bank\_OG$`Personal Loan`= as.factor(Train\_DS\_Bank\_OG$`Personal Loan`)  
Test\_DS\_Bank\_OG$`Personal Loan`= as.factor(Test\_DS\_Bank\_OG$`Personal Loan`)

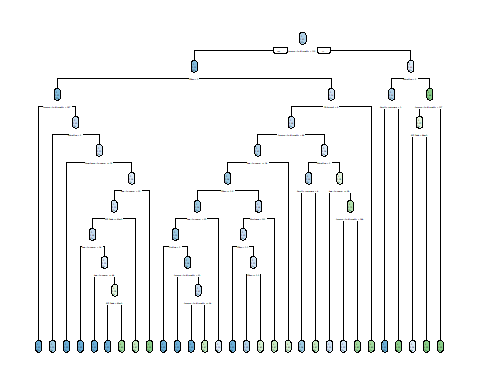
#CART Built the Tree

CART= rpart(formula = Train\_DS\_Bank\_OG$`Personal Loan`~.,  
 data = Train\_DS\_Bank\_OG, method = "class", minbucket = 3,cp = 0)  
CART

## n= 3500   
##   
## node), split, n, loss, yval, (yprob)  
## \* denotes terminal node  
##   
## 1) root 3500 336 0 (0.904000000 0.096000000)   
## 2) Income (in K/month)< 114.5 2827 57 0 (0.979837283 0.020162717)   
## 4) CCAvg< 2.95 2613 11 0 (0.995790279 0.004209721)   
## 8) Income (in K/month)< 106.5 2530 0 0 (1.000000000 0.000000000) \*  
## 9) Income (in K/month)>=106.5 83 11 0 (0.867469880 0.132530120)   
## 18) Education< 1.5 39 1 0 (0.974358974 0.025641026) \*  
## 19) Education>=1.5 44 10 0 (0.772727273 0.227272727)   
## 38) Experience (in years)>=31.5 10 0 0 (1.000000000 0.000000000) \*  
## 39) Experience (in years)< 31.5 34 10 0 (0.705882353 0.294117647)   
## 78) Age (in years)< 53 31 7 0 (0.774193548 0.225806452)   
## 156) ZIP Code>=91116 28 5 0 (0.821428571 0.178571429)   
## 312) Age (in years)< 33.5 13 0 0 (1.000000000 0.000000000) \*  
## 313) Age (in years)>=33.5 15 5 0 (0.666666667 0.333333333)   
## 626) Age (in years)>=48.5 6 0 0 (1.000000000 0.000000000) \*  
## 627) Age (in years)< 48.5 9 4 1 (0.444444444 0.555555556)   
## 1254) ZIP Code< 91704 3 0 0 (1.000000000 0.000000000) \*  
## 1255) ZIP Code>=91704 6 1 1 (0.166666667 0.833333333) \*  
## 157) ZIP Code< 91116 3 1 1 (0.333333333 0.666666667) \*  
## 79) Age (in years)>=53 3 0 1 (0.000000000 1.000000000) \*  
## 5) CCAvg>=2.95 214 46 0 (0.785046729 0.214953271)   
## 10) CD Account< 0.5 196 31 0 (0.841836735 0.158163265)   
## 20) Income (in K/month)< 98.5 138 14 0 (0.898550725 0.101449275)   
## 40) Age (in years)>=29.5 133 11 0 (0.917293233 0.082706767)   
## 80) CCAvg>=3.55 83 3 0 (0.963855422 0.036144578)   
## 160) Age (in years)< 63 80 2 0 (0.975000000 0.025000000)   
## 320) Online>=0.5 48 0 0 (1.000000000 0.000000000) \*  
## 321) Online< 0.5 32 2 0 (0.937500000 0.062500000)   
## 642) Income (in K/month)< 82.5 19 0 0 (1.000000000 0.000000000) \*  
## 643) Income (in K/month)>=82.5 13 2 0 (0.846153846 0.153846154)   
## 1286) Income (in K/month)>=83.5 10 0 0 (1.000000000 0.000000000) \*  
## 1287) Income (in K/month)< 83.5 3 1 1 (0.333333333 0.666666667) \*  
## 161) Age (in years)>=63 3 1 0 (0.666666667 0.333333333) \*  
## 81) CCAvg< 3.55 50 8 0 (0.840000000 0.160000000)   
## 162) Mortgage< 220.5 47 6 0 (0.872340426 0.127659574)   
## 324) CCAvg< 3.05 17 0 0 (1.000000000 0.000000000) \*  
## 325) CCAvg>=3.05 30 6 0 (0.800000000 0.200000000)   
## 650) CCAvg>=3.15 25 3 0 (0.880000000 0.120000000) \*  
## 651) CCAvg< 3.15 5 2 1 (0.400000000 0.600000000) \*  
## 163) Mortgage>=220.5 3 1 1 (0.333333333 0.666666667) \*  
## 41) Age (in years)< 29.5 5 2 1 (0.400000000 0.600000000) \*  
## 21) Income (in K/month)>=98.5 58 17 0 (0.706896552 0.293103448)   
## 42) Education< 1.5 36 4 0 (0.888888889 0.111111111)   
## 84) Family members< 3.5 33 2 0 (0.939393939 0.060606061) \*  
## 85) Family members>=3.5 3 1 1 (0.333333333 0.666666667) \*  
## 43) Education>=1.5 22 9 1 (0.409090909 0.590909091)   
## 86) Age (in years)>=60 5 1 0 (0.800000000 0.200000000) \*  
## 87) Age (in years)< 60 17 5 1 (0.294117647 0.705882353)   
## 174) Income (in K/month)< 100 4 1 0 (0.750000000 0.250000000) \*  
## 175) Income (in K/month)>=100 13 2 1 (0.153846154 0.846153846) \*  
## 11) CD Account>=0.5 18 3 1 (0.166666667 0.833333333) \*  
## 3) Income (in K/month)>=114.5 673 279 0 (0.585438336 0.414561664)   
## 6) Education< 1.5 436 47 0 (0.892201835 0.107798165)   
## 12) Family members< 2.5 389 0 0 (1.000000000 0.000000000) \*  
## 13) Family members>=2.5 47 0 1 (0.000000000 1.000000000) \*  
## 7) Education>=1.5 237 5 1 (0.021097046 0.978902954)   
## 14) Income (in K/month)< 116.5 11 5 1 (0.454545455 0.545454545)   
## 28) ZIP Code< 94358 7 2 0 (0.714285714 0.285714286) \*  
## 29) ZIP Code>=94358 4 0 1 (0.000000000 1.000000000) \*  
## 15) Income (in K/month)>=116.5 226 0 1 (0.000000000 1.000000000) \*

#CART Plot and View the Tree

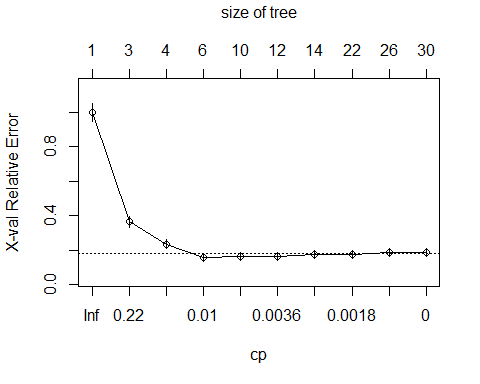
rpart.plot(CART) #Resulted in a highly complex tree that needs to be pruned



printcp(CART)

##   
## Classification tree:  
## rpart(formula = Train\_DS\_Bank\_OG$`Personal Loan` ~ ., data = Train\_DS\_Bank\_OG,   
## method = "class", minbucket = 3, cp = 0)  
##   
## Variables actually used in tree construction:  
## [1] Age (in years) CCAvg CD Account   
## [4] Education Experience (in years) Family members   
## [7] Income (in K/month) Mortgage Online   
## [10] ZIP Code   
##   
## Root node error: 336/3500 = 0.096  
##   
## n= 3500   
##   
## CP nsplit rel error xerror xstd  
## 1 0.33779762 0 1.000000 1.00000 0.051870  
## 2 0.13988095 2 0.324405 0.36607 0.032422  
## 3 0.01785714 3 0.184524 0.23512 0.026153  
## 4 0.00595238 5 0.148810 0.15774 0.021502  
## 5 0.00446429 9 0.122024 0.16369 0.021898  
## 6 0.00297619 11 0.113095 0.16369 0.021898  
## 7 0.00223214 13 0.107143 0.17560 0.022667  
## 8 0.00148810 21 0.083333 0.17560 0.022667  
## 9 0.00074405 25 0.077381 0.18750 0.023409  
## 10 0.00000000 29 0.074405 0.18750 0.023409

plotcp(CART) # Cross Validation shows the lowest Error is at level 4, 5 splits

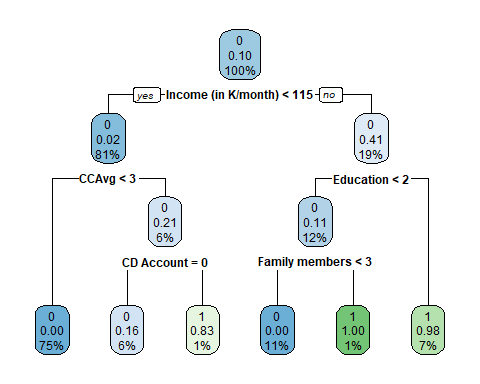


#CART Prune to simplify the tree

Pruned\_CART = prune(CART, cp = 0.015,'CP')  
printcp(Pruned\_CART)

##   
## Classification tree:  
## rpart(formula = Train\_DS\_Bank\_OG$`Personal Loan` ~ ., data = Train\_DS\_Bank\_OG,   
## method = "class", minbucket = 3, cp = 0)  
##   
## Variables actually used in tree construction:  
## [1] CCAvg CD Account Education   
## [4] Family members Income (in K/month)  
##   
## Root node error: 336/3500 = 0.096  
##   
## n= 3500   
##   
## CP nsplit rel error xerror xstd  
## 1 0.337798 0 1.00000 1.00000 0.051870  
## 2 0.139881 2 0.32440 0.36607 0.032422  
## 3 0.017857 3 0.18452 0.23512 0.026153  
## 4 0.015000 5 0.14881 0.15774 0.021502

rpart.plot(Pruned\_CART) #View the simplified Tree



Pruned\_CART

## n= 3500   
##   
## node), split, n, loss, yval, (yprob)  
## \* denotes terminal node  
##   
## 1) root 3500 336 0 (0.904000000 0.096000000)   
## 2) Income (in K/month)< 114.5 2827 57 0 (0.979837283 0.020162717)   
## 4) CCAvg< 2.95 2613 11 0 (0.995790279 0.004209721) \*  
## 5) CCAvg>=2.95 214 46 0 (0.785046729 0.214953271)   
## 10) CD Account< 0.5 196 31 0 (0.841836735 0.158163265) \*  
## 11) CD Account>=0.5 18 3 1 (0.166666667 0.833333333) \*  
## 3) Income (in K/month)>=114.5 673 279 0 (0.585438336 0.414561664)   
## 6) Education< 1.5 436 47 0 (0.892201835 0.107798165)   
## 12) Family members< 2.5 389 0 0 (1.000000000 0.000000000) \*  
## 13) Family members>=2.5 47 0 1 (0.000000000 1.000000000) \*  
## 7) Education>=1.5 237 5 1 (0.021097046 0.978902954) \*

#CART Busniess Rules

path.rpart(Pruned\_CART,c(1:7))

##   
## node number: 1   
## root  
##   
## node number: 2   
## root  
## Income (in K/month)< 114.5  
##   
## node number: 3   
## root  
## Income (in K/month)>=114.5  
##   
## node number: 4   
## root  
## Income (in K/month)< 114.5  
## CCAvg< 2.95  
##   
## node number: 5   
## root  
## Income (in K/month)< 114.5  
## CCAvg>=2.95  
##   
## node number: 6   
## root  
## Income (in K/month)>=114.5  
## Education< 1.5  
##   
## node number: 7   
## root  
## Income (in K/month)>=114.5  
## Education>=1.5

#CART Prediction Outcome

Pruned\_CART\_Out\_Train=Train\_DS\_Bank\_OG  
Pruned\_CART\_Out\_Train$Prediction = predict(Pruned\_CART, data=Pruned\_CART\_Out\_Train, type = "class")  
Pruned\_CART\_Out\_Train$Score = predict(Pruned\_CART, data=Pruned\_CART\_Out\_Train, type = "prob")[,'1']  
head(Pruned\_CART\_Out\_Train)

## # A tibble: 6 x 15  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4  
## 2 39 15 11 94720 1  
## 3 35 9 100 94112 1  
## 4 35 8 45 91330 4  
## 5 37 13 29 92121 4  
## 6 50 24 22 93943 1  
## # ... with 10 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <fct>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Prediction <fct>, Score <dbl>

View(Pruned\_CART\_Out\_Train)  
  
library(dbplyr)

##   
## Attaching package: 'dbplyr'

## The following objects are masked from 'package:dplyr':  
##   
## ident, sql

library(tidyverse)  
  
  
Pruned\_CART\_Out\_Test=Test\_DS\_Bank\_OG  
  
Pruned\_CART\_Out\_Test$Prediction = Pruned\_CART %>% predict(Pruned\_CART\_Out\_Test, type = "class")  
  
Pruned\_CART\_Out\_Test$Score = (Pruned\_CART %>% predict(Pruned\_CART\_Out\_Test, type = "prob"))[,'1']  
  
head(Pruned\_CART\_Out\_Test)

## # A tibble: 6 x 15  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 45 19 34 90089 3  
## 2 53 27 72 91711 2  
## 3 34 9 180 93023 1  
## 4 48 23 114 93106 2  
## 5 67 41 112 91741 1  
## 6 60 30 22 95054 1  
## # ... with 10 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <fct>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Prediction <fct>, Score <dbl>

View(Pruned\_CART\_Out\_Train)  
View(Pruned\_CART\_Out\_Test)

#CART\_Confusion Matrix - Model Performance 4.1

CART\_ConfusionMatrix\_Train= table (Pruned\_CART\_Out\_Train$`Personal Loan`,Pruned\_CART\_Out\_Train$Prediction)  
  
CART\_ConfusionMatrix\_Test= table (Pruned\_CART\_Out\_Test$`Personal Loan`,Pruned\_CART\_Out\_Test$Prediction)  
  
print(CART\_ConfusionMatrix\_Train) #Very high accuracy

##   
## 0 1  
## 0 3156 8  
## 1 42 294

print(CART\_ConfusionMatrix\_Test) #Very high accuracy

##   
## 0 1  
## 0 1352 4  
## 1 28 116

print((CART\_ConfusionMatrix\_Train [1,2]+CART\_ConfusionMatrix\_Train [2,1]))/nrow(Pruned\_CART\_Out\_Train) #Approx Error rate ~ 1.43%

## [1] 50

## [1] 0.01428571

print((CART\_ConfusionMatrix\_Test [1,2]+CART\_ConfusionMatrix\_Test [2,1]))/nrow(Pruned\_CART\_Out\_Test) #Approx Error rate ~ 2.13%

## [1] 32

## [1] 0.02133333

print((CART\_ConfusionMatrix\_Train [1,1]+CART\_ConfusionMatrix\_Train [2,2]))/nrow(Pruned\_CART\_Out\_Train) #Approx Accuracy rate ~ 98.6%

## [1] 3450

## [1] 0.9857143

print((CART\_ConfusionMatrix\_Test [1,1]+CART\_ConfusionMatrix\_Test [2,2]))/nrow(Pruned\_CART\_Out\_Test) #Approx Accuracy rate ~ 98%

## [1] 1468

## [1] 0.9786667

print((CART\_ConfusionMatrix\_Train [2,2]))/(CART\_ConfusionMatrix\_Train [2,1]+CART\_ConfusionMatrix\_Train [2,2]) #Approx Precision rate ~ 87.5%

## [1] 294

## [1] 0.875

print((CART\_ConfusionMatrix\_Test [2,2]))/(CART\_ConfusionMatrix\_Test [2,1]+CART\_ConfusionMatrix\_Test [2,2]) #Approx Precision rate ~ 81%

## [1] 116

## [1] 0.8055556

print((CART\_ConfusionMatrix\_Train [2,2]))/(CART\_ConfusionMatrix\_Train [1,2]+CART\_ConfusionMatrix\_Train [2,2]) #Approx Sensitivity rate ~ 97%

## [1] 294

## [1] 0.9735099

print((CART\_ConfusionMatrix\_Test [2,2]))/(CART\_ConfusionMatrix\_Test [1,2]+CART\_ConfusionMatrix\_Test [2,2]) #Approx Sensitivity rate ~ 96.6%

## [1] 116

## [1] 0.9666667

print((CART\_ConfusionMatrix\_Train [1,1]))/(CART\_ConfusionMatrix\_Train [1,1]+CART\_ConfusionMatrix\_Train [2,1]) #Approx Specificity rate ~ 98.6%

## [1] 3156

## [1] 0.9868668

print((CART\_ConfusionMatrix\_Test [1,1]))/(CART\_ConfusionMatrix\_Test [1,1]+CART\_ConfusionMatrix\_Test [2,1]) #Approx Specificity rate ~ 97.9%

## [1] 1352

## [1] 0.9797101

#Break down my probs in Quantiles, as our focus to find the customers with the high prob to respond.

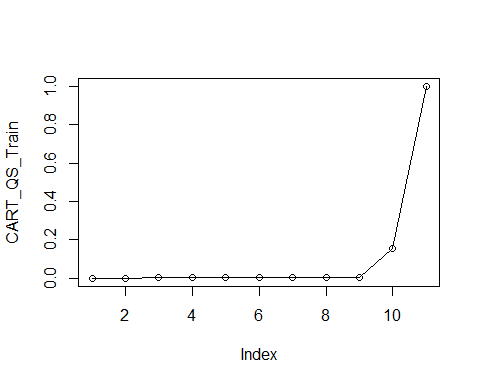
CART\_QS\_Train = quantile(Pruned\_CART\_Out\_Train$Score, prob= seq(0,1,length=11))  
  
CART\_QS\_Test = quantile(Pruned\_CART\_Out\_Test$Score, prob= seq(0,1,length=11))  
  
print(CART\_QS\_Train)

## 0% 10% 20% 30% 40% 50%   
## 0.000000000 0.000000000 0.004209721 0.004209721 0.004209721 0.004209721   
## 60% 70% 80% 90% 100%   
## 0.004209721 0.004209721 0.004209721 0.158163265 1.000000000

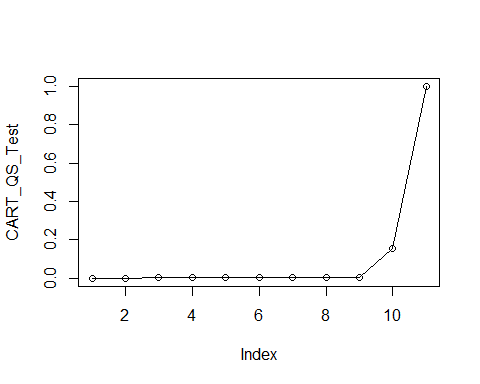
print(CART\_QS\_Test)

## 0% 10% 20% 30% 40% 50%   
## 0.000000000 0.000000000 0.004209721 0.004209721 0.004209721 0.004209721   
## 60% 70% 80% 90% 100%   
## 0.004209721 0.004209721 0.004209721 0.158163265 1.000000000

plot(CART\_QS\_Train)  
lines(CART\_QS\_Train)#Top 10 of all probs falls in 6th & and above



plot(CART\_QS\_Test)  
lines(CART\_QS\_Test)#Top 10 of all probs falls in 6th & and above



#CART - Create a threshold for probs Cut-off

CART\_Threshold= CART\_QS\_Train [6]  
  
mean(Pruned\_CART\_Out\_Train$`Personal Loan`[Pruned\_CART\_Out\_Train$Score > CART\_Threshold]=='1') #Avg. Accuracy of my prediction is ~91.8%

## [1] 0.6526104

mean(Pruned\_CART\_Out\_Test$`Personal Loan`[Pruned\_CART\_Out\_Test$Score > CART\_Threshold]=='1') #Avg. Accuracy of my prediction is ~95%

## [1] 0.6829268

#CART\_Rank Order Table - Model Performance

Pruned\_CART\_Out\_Train$deciles = cut(Pruned\_CART\_Out\_Train$Score,unique(CART\_QS\_Train),include.lowest = F)  
  
Pruned\_CART\_Out\_Test$deciles = cut(Pruned\_CART\_Out\_Test$Score,unique(CART\_QS\_Test),include.lowest = F)  
  
#Create deciles to bucket probabilities of each class.  
print(Pruned\_CART\_Out\_Train$deciles)

## [1] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [5] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [9] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [13] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [17] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [21] <NA> (0,0.00421] (0.158,1] (0,0.00421]   
## [25] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [29] <NA> (0.158,1] (0,0.00421] (0,0.00421]   
## [33] (0.158,1] (0.00421,0.158] (0,0.00421] (0.158,1]   
## [37] (0.00421,0.158] (0,0.00421] (0,0.00421] (0.158,1]   
## [41] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [45] <NA> (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [49] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [53] (0.00421,0.158] (0.158,1] (0,0.00421] (0.158,1]   
## [57] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [61] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [65] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [69] (0,0.00421] (0.00421,0.158] <NA> (0,0.00421]   
## [73] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [77] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [81] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [85] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [89] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [93] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [97] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [101] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [105] <NA> (0,0.00421] <NA> (0,0.00421]   
## [109] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [113] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [117] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [121] (0,0.00421] (0,0.00421] <NA> <NA>   
## [125] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [129] (0,0.00421] (0.158,1] (0,0.00421] (0.158,1]   
## [133] <NA> (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [137] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [141] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [145] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [149] <NA> <NA> (0.00421,0.158] (0,0.00421]   
## [153] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [157] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [161] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [165] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [169] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [173] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
## [177] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [181] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [185] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [189] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [193] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [197] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [201] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [205] (0,0.00421] <NA> (0,0.00421] (0.158,1]   
## [209] (0,0.00421] <NA> <NA> (0.158,1]   
## [213] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [217] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [221] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [225] (0,0.00421] (0.00421,0.158] (0.00421,0.158] (0.158,1]   
## [229] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [233] <NA> (0,0.00421] <NA> (0,0.00421]   
## [237] <NA> <NA> (0,0.00421] (0,0.00421]   
## [241] (0,0.00421] (0,0.00421] (0.158,1] (0.00421,0.158]  
## [245] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [249] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [253] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [257] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [261] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [265] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [269] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [273] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [277] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [281] (0,0.00421] <NA> (0,0.00421] (0.00421,0.158]  
## [285] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [289] (0,0.00421] (0,0.00421] (0.158,1] <NA>   
## [293] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [297] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [301] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [305] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [309] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [313] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [317] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [321] (0.158,1] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [325] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [329] (0.158,1] (0.00421,0.158] (0,0.00421] <NA>   
## [333] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [337] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [341] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [345] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [349] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [353] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [357] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [361] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [365] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [369] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [373] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [377] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [381] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [385] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [389] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [393] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [397] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [401] (0,0.00421] (0,0.00421] (0.00421,0.158] (0.00421,0.158]  
## [405] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [409] (0.158,1] (0,0.00421] <NA> (0,0.00421]   
## [413] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [417] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [421] <NA> (0,0.00421] <NA> (0,0.00421]   
## [425] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [429] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [433] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [437] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [441] <NA> <NA> (0,0.00421] (0,0.00421]   
## [445] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [449] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [453] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [457] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [461] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [465] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [469] <NA> (0,0.00421] (0,0.00421] (0.158,1]   
## [473] (0,0.00421] (0.00421,0.158] <NA> (0,0.00421]   
## [477] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [481] (0.00421,0.158] <NA> (0,0.00421] (0.00421,0.158]  
## [485] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [489] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [493] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [497] (0.158,1] (0,0.00421] (0,0.00421] <NA>   
## [501] (0,0.00421] (0.00421,0.158] <NA> (0.00421,0.158]  
## [505] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [509] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [513] (0.00421,0.158] (0,0.00421] (0,0.00421] <NA>   
## [517] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [521] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [525] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [529] (0.158,1] (0,0.00421] (0.158,1] <NA>   
## [533] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [537] (0.158,1] (0.158,1] (0.158,1] <NA>   
## [541] (0.00421,0.158] <NA> (0,0.00421] (0,0.00421]   
## [545] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [549] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [553] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [557] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [561] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [565] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [569] (0,0.00421] (0,0.00421] (0.158,1] <NA>   
## [573] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [577] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [581] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [585] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [589] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [593] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [597] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [601] (0.00421,0.158] (0,0.00421] <NA> <NA>   
## [605] (0,0.00421] (0,0.00421] <NA> (0.158,1]   
## [609] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [613] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [617] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [621] (0,0.00421] <NA> (0,0.00421] <NA>   
## [625] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [629] (0.00421,0.158] <NA> (0,0.00421] (0,0.00421]   
## [633] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [637] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [641] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [645] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [649] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [653] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [657] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [661] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [689] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [697] (0,0.00421] <NA> (0,0.00421] (0.00421,0.158]  
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## [941] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
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## [957] (0,0.00421] (0.158,1] (0.158,1] (0,0.00421]   
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## [2385] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
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## [3241] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3245] (0,0.00421] (0.00421,0.158] (0,0.00421] (0.158,1]   
## [3249] (0.158,1] <NA> (0.158,1] (0,0.00421]   
## [3253] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3257] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [3261] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3265] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3269] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3273] <NA> (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [3277] (0,0.00421] (0,0.00421] <NA> <NA>   
## [3281] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [3285] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [3289] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3293] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3297] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [3301] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [3309] <NA> (0,0.00421] (0,0.00421] <NA>   
## [3313] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3317] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [3321] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [3325] (0,0.00421] (0,0.00421] <NA> <NA>   
## [3329] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3333] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3337] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3341] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [3345] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3349] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3353] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [3357] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3361] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3365] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3369] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [3373] (0,0.00421] (0.158,1] (0.158,1] (0,0.00421]   
## [3377] (0,0.00421] <NA> (0,0.00421] <NA>   
## [3381] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3385] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3389] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
## [3393] (0.158,1] (0,0.00421] (0,0.00421] <NA>   
## [3397] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [3401] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3405] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [3409] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [3413] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3417] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3421] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3425] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3429] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3433] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [3437] (0,0.00421] <NA> (0,0.00421] <NA>   
## [3441] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [3445] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [3449] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [3453] (0,0.00421] (0,0.00421] (0.00421,0.158] (0.00421,0.158]  
## [3457] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [3461] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3465] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3469] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3473] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3477] (0,0.00421] (0.00421,0.158] (0,0.00421] (0.00421,0.158]  
## [3481] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3485] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [3489] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [3493] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [3497] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## Levels: (0,0.00421] (0.00421,0.158] (0.158,1]

print(Pruned\_CART\_Out\_Test$deciles)

## [1] (0,0.00421] (0,0.00421] (0.158,1] (0.00421,0.158]  
## [5] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [9] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [13] <NA> (0,0.00421] (0,0.00421] (0.158,1]   
## [17] <NA> <NA> (0,0.00421] (0,0.00421]   
## [21] <NA> <NA> (0,0.00421] (0,0.00421]   
## [25] (0.00421,0.158] (0,0.00421] <NA> (0,0.00421]   
## [29] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [33] (0.00421,0.158] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [37] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [41] (0,0.00421] (0.00421,0.158] <NA> (0.158,1]   
## [45] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [49] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [53] (0,0.00421] <NA> (0.158,1] (0,0.00421]   
## [57] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [61] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [65] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [69] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [73] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [77] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [81] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [85] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [89] (0,0.00421] (0.00421,0.158] (0,0.00421] (0.00421,0.158]  
## [93] (0.00421,0.158] <NA> (0,0.00421] (0.158,1]   
## [97] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [101] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [105] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
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## [113] (0,0.00421] (0,0.00421] (0.158,1] (0.00421,0.158]  
## [117] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [121] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [125] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [129] (0,0.00421] (0,0.00421] (0.00421,0.158] (0.00421,0.158]  
## [133] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [141] <NA> <NA> (0.00421,0.158] (0,0.00421]   
## [145] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
## [149] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
## [153] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [157] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [161] (0.158,1] (0,0.00421] (0,0.00421] <NA>   
## [165] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [169] <NA> (0,0.00421] <NA> (0,0.00421]   
## [173] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [177] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [181] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [185] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [189] <NA> (0,0.00421] (0,0.00421] <NA>   
## [193] <NA> (0,0.00421] (0.00421,0.158] (0.158,1]   
## [197] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [201] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [205] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
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## [213] (0,0.00421] (0,0.00421] (0.00421,0.158] <NA>   
## [217] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
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## [225] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [229] (0,0.00421] (0.158,1] (0.158,1] <NA>   
## [233] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [237] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [241] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [245] (0.158,1] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [249] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [253] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [257] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [261] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
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## [281] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [285] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [289] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [293] (0.00421,0.158] <NA> (0,0.00421] <NA>   
## [297] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [301] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [305] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [309] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [313] (0,0.00421] (0,0.00421] (0.00421,0.158] (0.00421,0.158]  
## [317] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [321] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [325] (0,0.00421] (0.158,1] (0.00421,0.158] (0,0.00421]   
## [329] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [333] (0.158,1] (0,0.00421] <NA> (0,0.00421]   
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## [345] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [349] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [353] (0.00421,0.158] (0,0.00421] <NA> <NA>   
## [357] <NA> (0,0.00421] (0,0.00421] (0.158,1]   
## [361] (0.158,1] (0.158,1] (0,0.00421] (0,0.00421]   
## [365] (0.00421,0.158] <NA> (0,0.00421] (0,0.00421]   
## [369] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
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## [377] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [381] (0,0.00421] (0.158,1] (0,0.00421] (0,0.00421]   
## [385] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
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## [401] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [405] (0.158,1] (0.00421,0.158] (0,0.00421] (0,0.00421]   
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## [413] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [425] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [429] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [433] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [445] <NA> (0,0.00421] (0.00421,0.158] (0.00421,0.158]  
## [449] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
## [453] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [457] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [461] <NA> (0.158,1] (0,0.00421] (0,0.00421]   
## [465] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [469] <NA> (0.00421,0.158] (0,0.00421] (0,0.00421]   
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## [477] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [485] <NA> (0,0.00421] (0.158,1] (0,0.00421]   
## [489] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [493] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [497] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [505] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
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## [513] <NA> (0,0.00421] (0,0.00421] <NA>   
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## [521] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [525] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
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## [533] <NA> (0,0.00421] (0,0.00421] (0.158,1]   
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## [541] (0,0.00421] (0.158,1] <NA> <NA>   
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## [581] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [585] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [589] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
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## [597] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [601] (0.00421,0.158] (0.158,1] (0,0.00421] (0,0.00421]   
## [605] <NA> <NA> (0,0.00421] (0,0.00421]   
## [609] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
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## [617] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## [621] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [625] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
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## [633] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [637] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [641] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [645] (0,0.00421] (0.00421,0.158] (0.00421,0.158] (0,0.00421]   
## [649] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [653] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [657] <NA> (0,0.00421] <NA> (0.158,1]   
## [661] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [665] (0.158,1] (0.158,1] (0.158,1] (0,0.00421]   
## [669] (0,0.00421] (0.00421,0.158] (0.158,1] <NA>   
## [673] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [677] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [681] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [685] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
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## [709] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
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## [717] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [733] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
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## [741] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [745] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
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## [753] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [757] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [761] (0,0.00421] (0,0.00421] (0.158,1] (0.00421,0.158]  
## [765] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [769] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
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## [813] (0,0.00421] (0,0.00421] (0.158,1] (0.00421,0.158]  
## [817] (0,0.00421] (0,0.00421] (0,0.00421] (0.00421,0.158]  
## [821] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [825] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [829] (0,0.00421] (0,0.00421] <NA> (0,0.00421]   
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## [837] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [841] (0.00421,0.158] (0,0.00421] <NA> (0.158,1]   
## [845] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [849] (0,0.00421] (0.158,1] (0.158,1] (0,0.00421]   
## [853] (0,0.00421] (0,0.00421] <NA> <NA>   
## [857] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
## [861] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [865] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [869] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [873] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [877] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [881] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [885] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [889] <NA> <NA> (0,0.00421] (0,0.00421]   
## [893] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [897] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
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## [909] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [913] (0,0.00421] (0,0.00421] <NA> (0.158,1]   
## [917] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [921] (0,0.00421] (0.00421,0.158] (0,0.00421] (0,0.00421]   
## [925] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [929] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [933] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [937] (0,0.00421] (0,0.00421] (0.158,1] (0.158,1]   
## [941] (0,0.00421] (0.00421,0.158] (0,0.00421] (0.158,1]   
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## [981] (0.158,1] (0.00421,0.158] (0,0.00421] (0.158,1]   
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## [1017] (0.00421,0.158] (0,0.00421] <NA> (0,0.00421]   
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## [1033] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [1037] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [1045] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
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## [1097] (0,0.00421] <NA> (0.158,1] (0.158,1]   
## [1101] (0,0.00421] (0,0.00421] (0.158,1] (0,0.00421]   
## [1105] (0.00421,0.158] <NA> (0.00421,0.158] <NA>   
## [1109] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [1169] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [1181] (0,0.00421] (0,0.00421] (0.00421,0.158] (0,0.00421]   
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## [1189] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
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## [1373] (0,0.00421] (0.158,1] (0,0.00421] <NA>   
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## [1457] (0.00421,0.158] <NA> (0.158,1] (0,0.00421]   
## [1461] (0.158,1] (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [1465] (0,0.00421] <NA> (0,0.00421] (0,0.00421]   
## [1469] <NA> (0,0.00421] <NA> (0,0.00421]   
## [1473] <NA> (0,0.00421] (0.00421,0.158] (0,0.00421]   
## [1477] (0.158,1] (0,0.00421] (0,0.00421] (0,0.00421]   
## [1481] (0,0.00421] (0,0.00421] (0,0.00421] (0.158,1]   
## [1485] (0.00421,0.158] (0,0.00421] (0,0.00421] (0,0.00421]   
## [1489] (0,0.00421] (0,0.00421] (0,0.00421] <NA>   
## [1493] (0,0.00421] (0,0.00421] (0,0.00421] (0,0.00421]   
## [1497] <NA> (0,0.00421] (0,0.00421] (0,0.00421]   
## Levels: (0,0.00421] (0.00421,0.158] (0.158,1]

head(Pruned\_CART\_Out\_Train)

## # A tibble: 6 x 16  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4  
## 2 39 15 11 94720 1  
## 3 35 9 100 94112 1  
## 4 35 8 45 91330 4  
## 5 37 13 29 92121 4  
## 6 50 24 22 93943 1  
## # ... with 11 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <fct>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Prediction <fct>, Score <dbl>,  
## # deciles <fct>

head(Pruned\_CART\_Out\_Test)

## # A tibble: 6 x 16  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 45 19 34 90089 3  
## 2 53 27 72 91711 2  
## 3 34 9 180 93023 1  
## 4 48 23 114 93106 2  
## 5 67 41 112 91741 1  
## 6 60 30 22 95054 1  
## # ... with 11 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <fct>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Prediction <fct>, Score <dbl>,  
## # deciles <fct>

#CART\_Rank Order Table - Building Blocks

library(data.table)

## Warning: package 'data.table' was built under R version 3.6.2

##   
## Attaching package: 'data.table'

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

## The following object is masked from 'package:purrr':  
##   
## transpose

CART\_Train\_DT = data.table(Pruned\_CART\_Out\_Train)  
CART\_Test\_DT = data.table(Pruned\_CART\_Out\_Test)#Convert data in DT  
View(CART\_Train\_DT)  
CART\_Train\_rnk\_tbl = CART\_Train\_DT[ ,list(cnt = length(CART\_Train\_DT$`Personal Loan`),cnt\_tar1 =sum(CART\_Train\_DT$`Personal Loan`=="1"),cnt\_tar0 =sum(CART\_Train\_DT$`Personal Loan`=="0")),by= deciles][order(-deciles)] #Base Count, Right and worng   
CART\_Train\_rnk\_tbl$rrate= round(CART\_Train\_rnk\_tbl$cnt\_tar1/CART\_Train\_rnk\_tbl$cnt)\*100 # % Right  
CART\_Train\_rnk\_tbl$Cum\_Resp = cumsum(CART\_Train\_rnk\_tbl$cnt\_tar1) #Cum right  
CART\_Train\_rnk\_tbl$Cum\_Non\_Resp = cumsum(CART\_Train\_rnk\_tbl$cnt\_tar0) #Cum wrong  
CART\_Train\_rnk\_tbl$Cum\_rel\_resp= round(CART\_Train\_rnk\_tbl$Cum\_Resp/sum(CART\_Train\_rnk\_tbl$cnt\_tar1),4)\*100 # % Cum right  
CART\_Train\_rnk\_tbl$Cum\_rel\_Non\_resp= round(CART\_Train\_rnk\_tbl$Cum\_Non\_Resp/sum(CART\_Train\_rnk\_tbl$cnt\_tar0),4)\*100 # % Cum wrong  
CART\_Train\_rnk\_tbl$Ks= abs(CART\_Train\_rnk\_tbl$Cum\_rel\_resp-CART\_Train\_rnk\_tbl$Cum\_rel\_Non\_resp) # Ks  
  
CART\_Test\_rnk\_tbl = CART\_Test\_DT[ ,list(cnt = length(CART\_Test\_DT$`Personal Loan`),cnt\_tar1 =sum(CART\_Test\_DT$`Personal Loan`=="1"),cnt\_tar0 =sum(CART\_Test\_DT$`Personal Loan`=="0")),by= deciles][order(-deciles)] #Base Count, Right and worng   
CART\_Test\_rnk\_tbl$rrate= round(CART\_Test\_rnk\_tbl$cnt\_tar1/CART\_Test\_rnk\_tbl$cnt)\*100 # % Right  
CART\_Test\_rnk\_tbl$Cum\_Resp = cumsum(CART\_Test\_rnk\_tbl$cnt\_tar1) #Cum right  
CART\_Test\_rnk\_tbl$Cum\_Non\_Resp = cumsum(CART\_Test\_rnk\_tbl$cnt\_tar0) #Cum wrong  
CART\_Test\_rnk\_tbl$Cum\_rel\_resp= round(CART\_Test\_rnk\_tbl$Cum\_Resp/sum(CART\_Test\_rnk\_tbl$cnt\_tar1),4)\*100 # % Cum right  
CART\_Test\_rnk\_tbl$Cum\_rel\_Non\_resp= round(CART\_Test\_rnk\_tbl$Cum\_Non\_Resp/sum(CART\_Test\_rnk\_tbl$cnt\_tar0),4)\*100 # % Cum wrong  
CART\_Test\_rnk\_tbl$Ks= abs(CART\_Test\_rnk\_tbl$Cum\_rel\_resp-CART\_Test\_rnk\_tbl$Cum\_rel\_Non\_resp) # Ks  
  
print(CART\_Train\_rnk\_tbl)

## deciles cnt cnt\_tar1 cnt\_tar0 rrate Cum\_Resp Cum\_Non\_Resp  
## 1: (0.158,1] 3500 336 3164 0 336 3164  
## 2: (0.00421,0.158] 3500 336 3164 0 672 6328  
## 3: (0,0.00421] 3500 336 3164 0 1008 9492  
## 4: <NA> 3500 336 3164 0 1344 12656  
## Cum\_rel\_resp Cum\_rel\_Non\_resp Ks  
## 1: 25 25 0  
## 2: 50 50 0  
## 3: 75 75 0  
## 4: 100 100 0

print(CART\_Test\_rnk\_tbl)

## deciles cnt cnt\_tar1 cnt\_tar0 rrate Cum\_Resp Cum\_Non\_Resp  
## 1: (0.158,1] 1500 144 1356 0 144 1356  
## 2: (0.00421,0.158] 1500 144 1356 0 288 2712  
## 3: (0,0.00421] 1500 144 1356 0 432 4068  
## 4: <NA> 1500 144 1356 0 576 5424  
## Cum\_rel\_resp Cum\_rel\_Non\_resp Ks  
## 1: 25 25 0  
## 2: 50 50 0  
## 3: 75 75 0  
## 4: 100 100 0

#CART\_ ROC, AUC and Gini - Model performance

library(ROCR)

## Warning: package 'ROCR' was built under R version 3.6.2

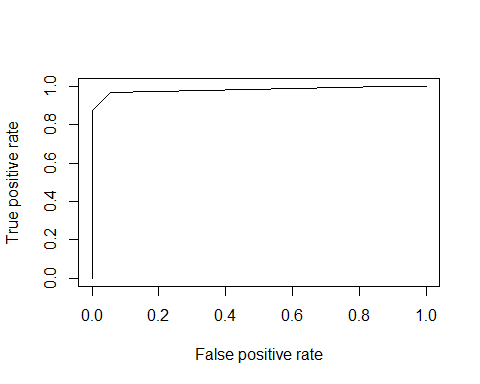
## Loading required package: gplots

## Warning: package 'gplots' was built under R version 3.6.2

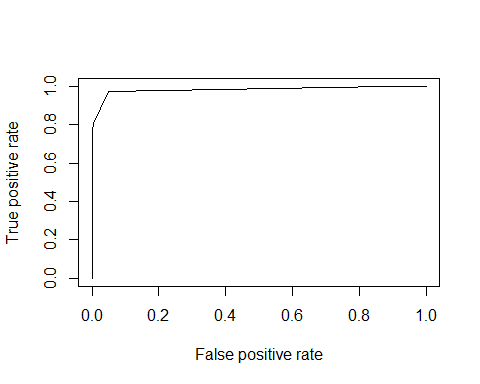
##   
## Attaching package: 'gplots'

## The following object is masked from 'package:stats':  
##   
## lowess

library(ineq)  
CART\_pred\_Obj\_Train = prediction(Pruned\_CART\_Out\_Train$Score, Pruned\_CART\_Out\_Train$`Personal Loan`) # Building ROC and compare  
CART\_pref\_Train = performance(CART\_pred\_Obj\_Train, "tpr","fpr") # Calculate TPR and FPR  
plot(CART\_pref\_Train) # Plot performance curve



CART\_pred\_Obj\_Test = prediction(Pruned\_CART\_Out\_Test$Score, Pruned\_CART\_Out\_Test$`Personal Loan`) # Building ROC and compare  
CART\_pref\_Test = performance(CART\_pred\_Obj\_Test, "tpr","fpr") # Calculate TPR and FPR  
plot(CART\_pref\_Test) # Plot performance curve



#Calculate KS  
CART\_Train\_Ks = max(CART\_pref\_Train@y.values[[1]]-CART\_pref\_Train@x.values[[1]])  
print(CART\_Train\_Ks) #K is 91.2

## [1] 0.9125843

CART\_Test\_Ks = max(CART\_pref\_Test@y.values[[1]]-CART\_pref\_Test@x.values[[1]])  
print(CART\_Test\_Ks) #K is 92.4

## [1] 0.9242871

#Calculate AUC  
CART\_AUC\_Train = performance(CART\_pred\_Obj\_Train,"auc")  
CART\_AUC\_Train = as.numeric(CART\_AUC\_Train@y.values)  
print (CART\_AUC\_Train) # AUC is ~98

## [1] 0.9814722

CART\_AUC\_Test = performance(CART\_pred\_Obj\_Test,"auc")  
CART\_AUC\_Test = as.numeric(CART\_AUC\_Test@y.values)  
print (CART\_AUC\_Test) # AUC is ~98

## [1] 0.9825877

#Calculate Gini  
CART\_Gini\_Train = ineq(Pruned\_CART\_Out\_Train$Score,"gini")  
CART\_Gini\_Test = ineq(Pruned\_CART\_Out\_Test$Score,"gini")  
print(CART\_Gini\_Train) # Gini equal 0.871

## [1] 0.8705017

print(CART\_Gini\_Test) # Gini equal 0.874

## [1] 0.8738842

#CART\_ Concordance and Discordance ratios’

library(InformationValue)

## Warning: package 'InformationValue' was built under R version 3.6.2

Concordance(actuals = Pruned\_CART\_Out\_Train$`Personal Loan`, predictedScores = Pruned\_CART\_Out\_Train$Score)

## $Concordance  
## [1] 0.9650382  
##   
## $Discordance  
## [1] 0.03496177  
##   
## $Tied  
## [1] 4.857226e-17  
##   
## $Pairs  
## [1] 1063104

#Concordance 0.9650382  
#Discordance 0.03496177  
#Tied 4.857226e-17  
  
Concordance(actuals = Pruned\_CART\_Out\_Test$`Personal Loan`, predictedScores = Pruned\_CART\_Out\_Test$Score)

## $Concordance  
## [1] 0.9670293  
##   
## $Discordance  
## [1] 0.03297075  
##   
## $Tied  
## [1] -4.163336e-17  
##   
## $Pairs  
## [1] 195264

#Concordance 0.9670293  
#Discordance 0.03297075  
#Tied -4.163336e-17

##Building Random Forest Model #Random Forest Install/Call Library

sum(Train\_DS\_Bank\_OG$Personal.Loan=="1")

## Warning: Unknown or uninitialised column: 'Personal.Loan'.

## [1] 0

sum(Train\_DS\_Bank\_OG$Personal.Loan=="1")/nrow(Train\_DS\_Bank\_OG)\*100 #Checking the percentage from my data who accepted the loan offer

## Warning: Unknown or uninitialised column: 'Personal.Loan'.

## [1] 0

library(randomForest)

## Warning: package 'randomForest' was built under R version 3.6.2

## randomForest 4.6-14

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

##   
## Attaching package: 'randomForest'

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

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

library(caret)#Build Confusion Matrix

## Warning: package 'caret' was built under R version 3.6.2

## Loading required package: lattice

##   
## Attaching package: 'caret'

## The following objects are masked from 'package:InformationValue':  
##   
## confusionMatrix, precision, sensitivity, specificity

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

library(e1071)

## Warning: package 'e1071' was built under R version 3.6.2

#Build Random Forest

head(Train\_DS\_Bank\_OG)

## # A tibble: 6 x 13  
## `Age (in years)` `Experience (in~ `Income (in K/m~ `ZIP Code` `Family members`  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4  
## 2 39 15 11 94720 1  
## 3 35 9 100 94112 1  
## 4 35 8 45 91330 4  
## 5 37 13 29 92121 4  
## 6 50 24 22 93943 1  
## # ... with 8 more variables: CCAvg <dbl>, Education <dbl>, Mortgage <dbl>,  
## # `Personal Loan` <fct>, `Securities Account` <dbl>, `CD Account` <dbl>,  
## # Online <dbl>, CreditCard <dbl>

set.seed(1000)  
names(Train\_DS\_Bank\_OG) = make.names(names(Train\_DS\_Bank\_OG))  
names(Test\_DS\_Bank) = make.names(names(Test\_DS\_Bank))  
  
RndForest = randomForest(Train\_DS\_Bank\_OG$Personal.Loan~.,data = Train\_DS\_Bank\_OG,ntree=501,mtry=3,nodesize=10,importance=T)  
print(RndForest)

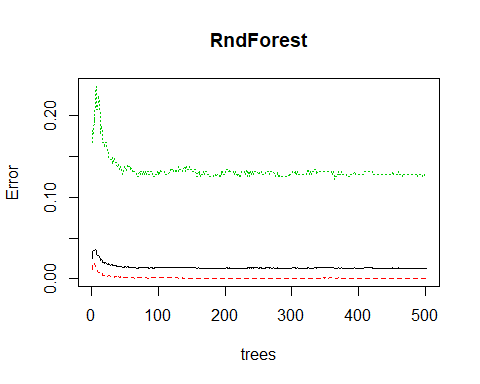
##   
## Call:  
## randomForest(formula = Train\_DS\_Bank\_OG$Personal.Loan ~ ., data = Train\_DS\_Bank\_OG, ntree = 501, mtry = 3, nodesize = 10, importance = T)   
## Type of random forest: classification  
## Number of trees: 501  
## No. of variables tried at each split: 3  
##   
## OOB estimate of error rate: 1.29%  
## Confusion matrix:  
## 0 1 class.error  
## 0 3161 3 0.0009481669  
## 1 42 294 0.1250000000

#Evaluate Error rate and try to reduce it

print(RndForest$err.rate)

## OOB 0 1  
## [1,] 0.02552204 0.0118744699 0.1666667  
## [2,] 0.03322259 0.0168598525 0.1818182  
## [3,] 0.03478593 0.0190920662 0.1776062  
## [4,] 0.03525424 0.0176625329 0.1972318  
## [5,] 0.03517110 0.0185769366 0.1914191  
## [6,] 0.03609667 0.0155826558 0.2271293  
## [7,] 0.03454437 0.0131795717 0.2352941  
## [8,] 0.03082795 0.0123296561 0.2067901  
## [9,] 0.02873730 0.0099486521 0.2066869  
## [10,] 0.02855495 0.0082987552 0.2185629  
## [11,] 0.02847282 0.0076360165 0.2245509  
## [12,] 0.02753083 0.0076117983 0.2155689  
## [13,] 0.02436228 0.0060240964 0.1970149  
## [14,] 0.02292264 0.0066561014 0.1761194  
## [15,] 0.02346209 0.0060126582 0.1880597  
## [16,] 0.02287675 0.0063251107 0.1791045  
## [17,] 0.02000572 0.0044247788 0.1671642  
## [18,] 0.02028571 0.0047408344 0.1666667  
## [19,] 0.02000000 0.0044247788 0.1666667  
## [20,] 0.01885714 0.0037926675 0.1607143  
## [21,] 0.01971429 0.0041087231 0.1666667  
## [22,] 0.01857143 0.0028445006 0.1666667  
## [23,] 0.01857143 0.0031605563 0.1636905  
## [24,] 0.01771429 0.0028445006 0.1577381  
## [25,] 0.01828571 0.0037926675 0.1547619  
## [26,] 0.01771429 0.0037926675 0.1488095  
## [27,] 0.01771429 0.0037926675 0.1488095  
## [28,] 0.01685714 0.0031605563 0.1458333  
## [29,] 0.01657143 0.0028445006 0.1458333  
## [30,] 0.01714286 0.0034766119 0.1458333  
## [31,] 0.01600000 0.0028445006 0.1398810  
## [32,] 0.01742857 0.0034766119 0.1488095  
## [33,] 0.01600000 0.0025284450 0.1428571  
## [34,] 0.01685714 0.0028445006 0.1488095  
## [35,] 0.01600000 0.0022123894 0.1458333  
## [36,] 0.01600000 0.0025284450 0.1428571  
## [37,] 0.01600000 0.0025284450 0.1428571  
## [38,] 0.01514286 0.0018963338 0.1398810  
## [39,] 0.01542857 0.0025284450 0.1369048  
## [40,] 0.01571429 0.0028445006 0.1369048  
## [41,] 0.01571429 0.0025284450 0.1398810  
## [42,] 0.01485714 0.0022123894 0.1339286  
## [43,] 0.01485714 0.0018963338 0.1369048  
## [44,] 0.01514286 0.0025284450 0.1339286  
## [45,] 0.01457143 0.0018963338 0.1339286  
## [46,] 0.01428571 0.0018963338 0.1309524  
## [47,] 0.01400000 0.0018963338 0.1279762  
## [48,] 0.01428571 0.0018963338 0.1309524  
## [49,] 0.01428571 0.0015802781 0.1339286  
## [50,] 0.01485714 0.0018963338 0.1369048  
## [51,] 0.01457143 0.0015802781 0.1369048  
## [52,] 0.01428571 0.0018963338 0.1309524  
## [53,] 0.01428571 0.0015802781 0.1339286  
## [54,] 0.01457143 0.0015802781 0.1369048  
## [55,] 0.01485714 0.0015802781 0.1398810  
## [56,] 0.01428571 0.0012642225 0.1369048  
## [57,] 0.01428571 0.0012642225 0.1369048  
## [58,] 0.01400000 0.0012642225 0.1339286  
## [59,] 0.01428571 0.0012642225 0.1369048  
## [60,] 0.01400000 0.0012642225 0.1339286  
## [61,] 0.01371429 0.0012642225 0.1309524  
## [62,] 0.01400000 0.0012642225 0.1339286  
## [63,] 0.01371429 0.0012642225 0.1309524  
## [64,] 0.01342857 0.0009481669 0.1309524  
## [65,] 0.01342857 0.0009481669 0.1309524  
## [66,] 0.01342857 0.0009481669 0.1309524  
## [67,] 0.01314286 0.0009481669 0.1279762  
## [68,] 0.01314286 0.0012642225 0.1250000  
## [69,] 0.01314286 0.0012642225 0.1250000  
## [70,] 0.01314286 0.0012642225 0.1250000  
## [71,] 0.01342857 0.0012642225 0.1279762  
## [72,] 0.01371429 0.0012642225 0.1309524  
## [73,] 0.01342857 0.0012642225 0.1279762  
## [74,] 0.01371429 0.0012642225 0.1309524  
## [75,] 0.01371429 0.0012642225 0.1309524  
## [76,] 0.01342857 0.0012642225 0.1279762  
## [77,] 0.01371429 0.0012642225 0.1309524  
## [78,] 0.01400000 0.0015802781 0.1309524  
## [79,] 0.01342857 0.0012642225 0.1279762  
## [80,] 0.01371429 0.0012642225 0.1309524  
## [81,] 0.01371429 0.0012642225 0.1309524  
## [82,] 0.01342857 0.0012642225 0.1279762  
## [83,] 0.01342857 0.0012642225 0.1279762  
## [84,] 0.01342857 0.0009481669 0.1309524  
## [85,] 0.01342857 0.0009481669 0.1309524  
## [86,] 0.01314286 0.0009481669 0.1279762  
## [87,] 0.01314286 0.0009481669 0.1279762  
## [88,] 0.01371429 0.0012642225 0.1309524  
## [89,] 0.01371429 0.0012642225 0.1309524  
## [90,] 0.01371429 0.0012642225 0.1309524  
## [91,] 0.01400000 0.0015802781 0.1309524  
## [92,] 0.01314286 0.0012642225 0.1250000  
## [93,] 0.01314286 0.0012642225 0.1250000  
## [94,] 0.01314286 0.0012642225 0.1250000  
## [95,] 0.01342857 0.0015802781 0.1250000  
## [96,] 0.01371429 0.0015802781 0.1279762  
## [97,] 0.01342857 0.0012642225 0.1279762  
## [98,] 0.01342857 0.0012642225 0.1279762  
## [99,] 0.01371429 0.0012642225 0.1309524  
## [100,] 0.01342857 0.0012642225 0.1279762  
## [101,] 0.01371429 0.0012642225 0.1309524  
## [102,] 0.01342857 0.0012642225 0.1279762  
## [103,] 0.01400000 0.0012642225 0.1339286  
## [104,] 0.01400000 0.0012642225 0.1339286  
## [105,] 0.01400000 0.0015802781 0.1309524  
## [106,] 0.01371429 0.0012642225 0.1309524  
## [107,] 0.01371429 0.0012642225 0.1309524  
## [108,] 0.01371429 0.0012642225 0.1309524  
## [109,] 0.01371429 0.0012642225 0.1309524  
## [110,] 0.01371429 0.0012642225 0.1309524  
## [111,] 0.01342857 0.0012642225 0.1279762  
## [112,] 0.01342857 0.0012642225 0.1279762  
## [113,] 0.01342857 0.0012642225 0.1279762  
## [114,] 0.01342857 0.0012642225 0.1279762  
## [115,] 0.01342857 0.0012642225 0.1279762  
## [116,] 0.01342857 0.0012642225 0.1279762  
## [117,] 0.01371429 0.0012642225 0.1309524  
## [118,] 0.01400000 0.0012642225 0.1339286  
## [119,] 0.01371429 0.0012642225 0.1309524  
## [120,] 0.01400000 0.0012642225 0.1339286  
## [121,] 0.01400000 0.0012642225 0.1339286  
## [122,] 0.01400000 0.0012642225 0.1339286  
## [123,] 0.01371429 0.0012642225 0.1309524  
## [124,] 0.01400000 0.0012642225 0.1339286  
## [125,] 0.01400000 0.0012642225 0.1339286  
## [126,] 0.01371429 0.0012642225 0.1309524  
## [127,] 0.01400000 0.0012642225 0.1339286  
## [128,] 0.01371429 0.0012642225 0.1309524  
## [129,] 0.01400000 0.0012642225 0.1339286  
## [130,] 0.01342857 0.0009481669 0.1309524  
## [131,] 0.01400000 0.0009481669 0.1369048  
## [132,] 0.01371429 0.0009481669 0.1339286  
## [133,] 0.01371429 0.0009481669 0.1339286  
## [134,] 0.01371429 0.0009481669 0.1339286  
## [135,] 0.01371429 0.0009481669 0.1339286  
## [136,] 0.01342857 0.0009481669 0.1309524  
## [137,] 0.01400000 0.0012642225 0.1339286  
## [138,] 0.01371429 0.0009481669 0.1339286  
## [139,] 0.01400000 0.0009481669 0.1369048  
## [140,] 0.01400000 0.0009481669 0.1369048  
## [141,] 0.01342857 0.0009481669 0.1309524  
## [142,] 0.01400000 0.0009481669 0.1369048  
## [143,] 0.01371429 0.0009481669 0.1339286  
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## [480,] 0.01314286 0.0009481669 0.1279762  
## [481,] 0.01314286 0.0009481669 0.1279762  
## [482,] 0.01314286 0.0009481669 0.1279762  
## [483,] 0.01314286 0.0009481669 0.1279762  
## [484,] 0.01314286 0.0009481669 0.1279762  
## [485,] 0.01314286 0.0009481669 0.1279762  
## [486,] 0.01314286 0.0009481669 0.1279762  
## [487,] 0.01285714 0.0009481669 0.1250000  
## [488,] 0.01285714 0.0009481669 0.1250000  
## [489,] 0.01314286 0.0009481669 0.1279762  
## [490,] 0.01314286 0.0009481669 0.1279762  
## [491,] 0.01314286 0.0009481669 0.1279762  
## [492,] 0.01314286 0.0009481669 0.1279762  
## [493,] 0.01314286 0.0009481669 0.1279762  
## [494,] 0.01314286 0.0009481669 0.1279762  
## [495,] 0.01285714 0.0009481669 0.1250000  
## [496,] 0.01314286 0.0009481669 0.1279762  
## [497,] 0.01314286 0.0009481669 0.1279762  
## [498,] 0.01314286 0.0009481669 0.1279762  
## [499,] 0.01285714 0.0009481669 0.1250000  
## [500,] 0.01285714 0.0009481669 0.1250000  
## [501,] 0.01285714 0.0009481669 0.1250000

plot(RndForest) #Based on the plot we see that OOB plateau after ~51, so no point to use 501 trees in our forest

 #Evaluate the important of the variables used on our model

importance(RndForest) #The most important two variables are Income and Education for our predication

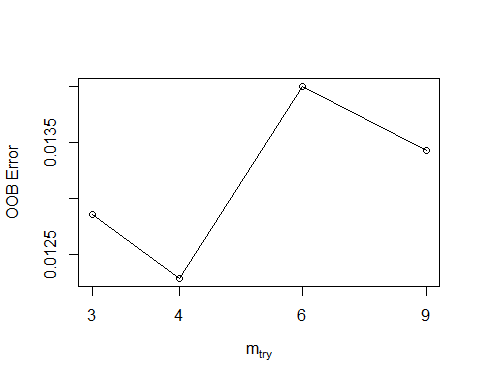
## 0 1 MeanDecreaseAccuracy  
## Age..in.years. 12.2462780 0.06016577 12.3952070  
## Experience..in.years. 10.6010164 -0.22678967 10.5795116  
## Income..in.K.month. 91.7660978 76.30138037 98.8507280  
## ZIP.Code -0.8988673 -0.37077850 -0.9717842  
## Family.members 58.9549207 32.25537147 58.5596907  
## CCAvg 28.3392158 24.09135643 31.5234563  
## Education 89.6520116 63.23171997 92.2014113  
## Mortgage 10.5236760 -1.69915601 9.2146387  
## Securities.Account 3.1495669 0.55436698 3.0263705  
## CD.Account 14.6867712 13.21823705 18.8604280  
## Online 3.2414178 2.02560904 4.0167230  
## CreditCard 8.9839506 3.95599580 10.5128197  
## MeanDecreaseGini  
## Age..in.years. 12.637394  
## Experience..in.years. 12.193894  
## Income..in.K.month. 189.609965  
## ZIP.Code 11.810182  
## Family.members 56.929056  
## CCAvg 88.078690  
## Education 106.969217  
## Mortgage 17.160716  
## Securities.Account 1.622002  
## CD.Account 32.408675  
## Online 1.897376  
## CreditCard 3.034429

View(Train\_DS\_Bank\_OG)

#Run number of Scenarios for mtry or variables randomly selected to understand what is the impact on my OOB.

set.seed(1000)  
T\_RndForest = tuneRF(Train\_DS\_Bank\_OG[,-9],Train\_DS\_Bank\_OG$Personal.Loan,mtryStart = 6,stepFactor = 1.5,ntreeTry = 51,improve = 0.0001, nodesize = 10,trace = T,plot = T,doBest = T,importance=T) #6 Variables is the best, yielding the lowest OOB

## mtry = 6 OOB error = 1.4%   
## Searching left ...  
## mtry = 4 OOB error = 1.23%   
## 0.122449 1e-04   
## mtry = 3 OOB error = 1.29%   
## -0.04651163 1e-04   
## Searching right ...  
## mtry = 9 OOB error = 1.34%   
## -0.09302326 1e-04



#Testing my RF model predication Power

RF\_OutPut\_Train = Train\_DS\_Bank\_OG  
RF\_OutPut\_Test = Test\_DS\_Bank  
  
RF\_OutPut\_Train$Predict.Class = predict(T\_RndForest,RF\_OutPut\_Train,type = "class")  
  
RF\_OutPut\_Test$Predict.Class = predict(T\_RndForest,RF\_OutPut\_Test,type = "class")  
  
RF\_OutPut\_Train$Predict.Score = predict(T\_RndForest,RF\_OutPut\_Train,type = "prob")[,"1"]   
  
RF\_OutPut\_Test$Predict.Score = predict(T\_RndForest,RF\_OutPut\_Test,type = "prob")[,"1"]   
#Porb for who expected the personal loan offer  
View(RF\_OutPut\_Train)  
View(RF\_OutPut\_Test)

#RF\_Confusion Matrix - Model Performance 4.1

RF\_ConfusionMatrix\_Train= table (RF\_OutPut\_Train$Personal.Loan,RF\_OutPut\_Train$Predict.Class)  
  
library(caret)  
confusionMatrix(RF\_OutPut\_Train$Personal.Loan,RF\_OutPut\_Train$Predict.Class)

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 3162 2  
## 1 25 311  
##   
## Accuracy : 0.9923   
## 95% CI : (0.9888, 0.9949)  
## No Information Rate : 0.9106   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.9542   
##   
## Mcnemar's Test P-Value : 2.297e-05   
##   
## Sensitivity : 0.9922   
## Specificity : 0.9936   
## Pos Pred Value : 0.9994   
## Neg Pred Value : 0.9256   
## Prevalence : 0.9106   
## Detection Rate : 0.9034   
## Detection Prevalence : 0.9040   
## Balanced Accuracy : 0.9929   
##   
## 'Positive' Class : 0   
##

RF\_ConfusionMatrix\_Test= table (RF\_OutPut\_Test$Personal.Loan,RF\_OutPut\_Test$Predict.Class)  
  
print(RF\_ConfusionMatrix\_Train) #Very high accuracy

##   
## 0 1  
## 0 3162 2  
## 1 25 311

print(RF\_ConfusionMatrix\_Test) #Very high accuracy

##   
## 0 1  
## 0 1352 4  
## 1 27 117

print((RF\_ConfusionMatrix\_Train [1,2]+RF\_ConfusionMatrix\_Train [2,1]))/nrow(RF\_OutPut\_Train) #Approx Error rate ~ 0.66%

## [1] 27

## [1] 0.007714286

print((RF\_ConfusionMatrix\_Test [1,2]+RF\_ConfusionMatrix\_Test [2,1]))/nrow(RF\_OutPut\_Test) #Approx Error rate ~ 1.9%

## [1] 31

## [1] 0.02066667

print((RF\_ConfusionMatrix\_Train [1,1]+RF\_ConfusionMatrix\_Train [2,2]))/nrow(RF\_OutPut\_Train) #Approx Accuracy rate ~ 99%

## [1] 3473

## [1] 0.9922857

print((RF\_ConfusionMatrix\_Test [1,1]+RF\_ConfusionMatrix\_Test [2,2]))/nrow(RF\_OutPut\_Test) #Approx Accuracy rate ~ 98%

## [1] 1469

## [1] 0.9793333

print((RF\_ConfusionMatrix\_Train [2,2]))/(RF\_ConfusionMatrix\_Train [2,1]+RF\_ConfusionMatrix\_Train [2,2]) #Approx Precision rate ~ 93.5%

## [1] 311

## [1] 0.9255952

print((RF\_ConfusionMatrix\_Test [2,2]))/(RF\_ConfusionMatrix\_Test [2,1]+RF\_ConfusionMatrix\_Test [2,2]) #Approx Precision rate ~ 83.3%

## [1] 117

## [1] 0.8125

print((RF\_ConfusionMatrix\_Train [2,2]))/(RF\_ConfusionMatrix\_Train [1,2]+RF\_ConfusionMatrix\_Train [2,2]) #Approx Sensitivity rate ~ 100%

## [1] 311

## [1] 0.9936102

print((RF\_ConfusionMatrix\_Test [2,2]))/(RF\_ConfusionMatrix\_Test [1,2]+RF\_ConfusionMatrix\_Test [2,2]) #Approx Sensitivity rate ~ 97%

## [1] 117

## [1] 0.9669421

print((RF\_ConfusionMatrix\_Train [1,1]))/(RF\_ConfusionMatrix\_Train [1,1]+RF\_ConfusionMatrix\_Train [2,1]) #Approx Specificity rate ~ 99%

## [1] 3162

## [1] 0.9921556

print((RF\_ConfusionMatrix\_Test [1,1]))/(RF\_ConfusionMatrix\_Test [1,1]+RF\_ConfusionMatrix\_Test [2,1]) #Approx Specificity rate ~ 98%

## [1] 1352

## [1] 0.9804206

#Break down my probs in Quantiles, as our focus to find the customers with the high prob to respond.

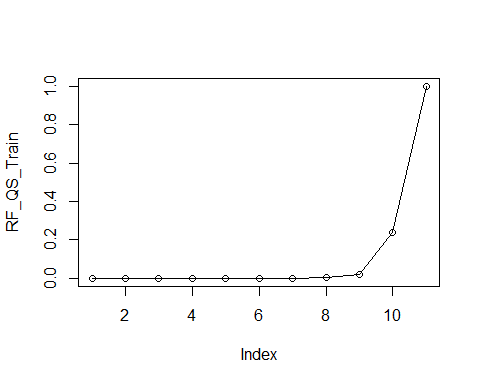
RF\_QS\_Train = quantile(RF\_OutPut\_Train$Predict.Score, prob= seq(0,1,length=11))  
  
RF\_QS\_Test = quantile(RF\_OutPut\_Test$Predict.Score, prob= seq(0,1,length=11))  
  
print(RF\_QS\_Train)

## 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%   
## 0.000 0.000 0.000 0.000 0.000 0.000 0.002 0.004 0.018 0.240 1.000

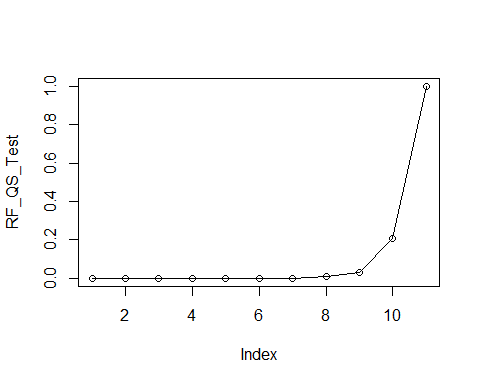
print(RF\_QS\_Test)

## 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%   
## 0.000 0.000 0.000 0.000 0.000 0.000 0.002 0.008 0.030 0.210 1.000

plot(RF\_QS\_Train)  
lines(RF\_QS\_Train)#Top 10 of all probs falls in 10th & 11th range



plot(RF\_QS\_Test)  
lines(RF\_QS\_Test)#Top 10 of all probs falls in 10th & 11th range



#Create a threshold for probs Cut-off

RF\_Threshold= RF\_QS\_Train [10]  
  
mean(RF\_OutPut\_Train$Personal.Loan[RF\_OutPut\_Train$Predict.Score>RF\_Threshold]=="1") #Avg. Accuracy of my prediction is ~96%

## [1] 0.9570201

mean(RF\_OutPut\_Test$Personal.Loan[RF\_OutPut\_Test$Predict.Score>RF\_Threshold]=="1") #Avg. Accuracy of my prediction is ~95%

## [1] 0.937931

#RF\_Rank Order Table - Model Performance

RF\_OutPut\_Train$deciles = cut(RF\_OutPut\_Train$Predict.Score,unique(RF\_QS\_Train), inculde.lowest = F)  
RF\_OutPut\_Test$deciles = cut(RF\_OutPut\_Test$Predict.Score,unique(RF\_QS\_Test), inculde.lowest = F) #Create deciles to bucket probabilities of each class.  
  
print(RF\_OutPut\_Train$deciles)

## [1] <NA> <NA> (0.004,0.018] (0,0.002] <NA>   
## [6] <NA> <NA> (0.018,0.24] <NA> <NA>   
## [11] (0.24,1] <NA> (0.24,1] (0,0.002] <NA>   
## [16] <NA> (0,0.002] <NA> <NA> (0,0.002]   
## [21] (0.004,0.018] <NA> (0.24,1] <NA> <NA>   
## [26] <NA> <NA> <NA> (0.018,0.24] (0.24,1]   
## [31] (0,0.002] <NA> (0.24,1] (0.018,0.24] <NA>   
## [36] (0.24,1] (0.018,0.24] <NA> <NA> (0.24,1]   
## [41] <NA> (0.018,0.24] <NA> <NA> (0.018,0.24]   
## [46] <NA> <NA> (0.018,0.24] (0.004,0.018] <NA>   
## [51] <NA> (0.004,0.018] (0.018,0.24] (0.24,1] <NA>   
## [56] (0.24,1] <NA> (0,0.002] <NA> <NA>   
## [61] <NA> <NA> <NA> (0.018,0.24] (0.24,1]   
## [66] (0,0.002] <NA> (0,0.002] <NA> (0.004,0.018]  
## [71] (0.004,0.018] <NA> <NA> <NA> <NA>   
## [76] <NA> <NA> <NA> <NA> <NA>   
## [81] <NA> <NA> (0.018,0.24] <NA> <NA>   
## [86] <NA> (0.018,0.24] (0.004,0.018] <NA> <NA>   
## [91] <NA> (0,0.002] (0.004,0.018] <NA> <NA>   
## [96] (0.24,1] <NA> (0.002,0.004] <NA> <NA>   
## [101] <NA> (0.002,0.004] <NA> <NA> (0.004,0.018]  
## [106] <NA> (0.004,0.018] <NA> <NA> (0,0.002]   
## [111] <NA> (0.002,0.004] <NA> <NA> <NA>   
## [116] (0.24,1] <NA> (0.002,0.004] <NA> <NA>   
## [121] (0,0.002] <NA> (0.002,0.004] (0.004,0.018] <NA>   
## [126] (0.24,1] <NA> <NA> <NA> (0.24,1]   
## [131] <NA> (0.24,1] (0.004,0.018] (0.018,0.24] <NA>   
## [136] <NA> (0.002,0.004] (0,0.002] <NA> <NA>   
## [141] <NA> <NA> (0,0.002] <NA> <NA>   
## [146] <NA> <NA> <NA> <NA> (0.004,0.018]  
## [151] (0.018,0.24] <NA> <NA> (0.004,0.018] <NA>   
## [156] <NA> (0,0.002] (0.018,0.24] (0.018,0.24] (0.002,0.004]  
## [161] <NA> <NA> <NA> (0,0.002] <NA>   
## [166] (0,0.002] (0,0.002] (0.004,0.018] (0.24,1] <NA>   
## [171] <NA> <NA> (0.002,0.004] (0.24,1] <NA>   
## [176] (0.004,0.018] (0.24,1] <NA> (0.004,0.018] <NA>   
## [181] <NA> <NA> (0.24,1] (0.004,0.018] <NA>   
## [186] (0.004,0.018] <NA> <NA> <NA> <NA>   
## [191] <NA> <NA> (0,0.002] <NA> (0.004,0.018]  
## [196] (0.002,0.004] <NA> <NA> <NA> (0.24,1]   
## [201] <NA> <NA> <NA> <NA> (0,0.002]   
## [206] (0.004,0.018] <NA> (0.24,1] <NA> (0.018,0.24]   
## [211] <NA> (0.24,1] <NA> (0,0.002] <NA>   
## [216] <NA> (0.018,0.24] <NA> (0,0.002] <NA>   
## [221] (0,0.002] (0.24,1] (0.018,0.24] <NA> <NA>   
## [226] (0.24,1] (0.018,0.24] (0.24,1] <NA> (0.004,0.018]  
## [231] (0.004,0.018] <NA> (0,0.002] <NA> (0.018,0.24]   
## [236] <NA> (0.018,0.24] (0.002,0.004] (0.004,0.018] <NA>   
## [241] <NA> (0.002,0.004] (0.24,1] (0.24,1] (0.018,0.24]   
## [246] (0.24,1] <NA> (0,0.002] (0.018,0.24] <NA>   
## [251] <NA> <NA> <NA> <NA> <NA>   
## [256] (0.24,1] <NA> (0,0.002] <NA> (0.002,0.004]  
## [261] <NA> <NA> (0.018,0.24] <NA> <NA>   
## [266] <NA> <NA> <NA> <NA> <NA>   
## [271] <NA> <NA> <NA> (0,0.002] <NA>   
## [276] <NA> <NA> <NA> <NA> (0.24,1]   
## [281] <NA> (0.004,0.018] <NA> (0.018,0.24] <NA>   
## [286] <NA> <NA> <NA> <NA> <NA>   
## [291] (0.24,1] (0.018,0.24] (0.004,0.018] <NA> <NA>   
## [296] <NA> <NA> (0,0.002] <NA> (0.018,0.24]   
## [301] <NA> <NA> (0.24,1] <NA> <NA>   
## [306] (0.24,1] <NA> (0,0.002] <NA> <NA>   
## [311] <NA> <NA> <NA> <NA> (0,0.002]   
## [316] <NA> <NA> <NA> <NA> (0.24,1]   
## [321] (0.24,1] (0.24,1] (0,0.002] (0,0.002] <NA>   
## [326] <NA> <NA> <NA> (0.24,1] (0.018,0.24]   
## [331] <NA> (0.018,0.24] <NA> <NA> (0.24,1]   
## [336] <NA> (0.018,0.24] <NA> (0.018,0.24] <NA>   
## [341] (0,0.002] (0,0.002] <NA> <NA> <NA>   
## [346] <NA> <NA> <NA> <NA> <NA>   
## [351] (0.24,1] <NA> <NA> (0.004,0.018] (0.004,0.018]  
## [356] (0,0.002] (0.018,0.24] <NA> (0,0.002] <NA>   
## [361] <NA> (0,0.002] <NA> <NA> <NA>   
## [366] <NA> <NA> (0.018,0.24] <NA> <NA>   
## [371] (0.004,0.018] <NA> <NA> (0,0.002] (0.004,0.018]  
## [376] <NA> <NA> (0.002,0.004] <NA> (0.004,0.018]  
## [381] (0.004,0.018] <NA> (0,0.002] <NA> <NA>   
## [386] (0,0.002] <NA> <NA> (0.004,0.018] <NA>   
## [391] <NA> <NA> <NA> (0.24,1] <NA>   
## [396] <NA> (0,0.002] (0,0.002] <NA> <NA>   
## [401] (0,0.002] (0,0.002] (0.004,0.018] (0.018,0.24] (0.004,0.018]  
## [406] (0.004,0.018] <NA> <NA> (0.24,1] <NA>   
## [411] (0.004,0.018] <NA> <NA> <NA> (0.002,0.004]  
## [416] (0.24,1] <NA> <NA> <NA> <NA>   
## [421] <NA> (0.018,0.24] (0.004,0.018] <NA> <NA>   
## [426] (0.018,0.24] <NA> (0,0.002] <NA> (0,0.002]   
## [431] <NA> (0.018,0.24] <NA> (0.24,1] (0,0.002]   
## [436] (0.004,0.018] <NA> <NA> <NA> (0.018,0.24]   
## [441] (0.002,0.004] (0.004,0.018] (0.018,0.24] (0,0.002] <NA>   
## [446] <NA> (0.24,1] <NA> (0.004,0.018] <NA>   
## [451] (0.24,1] <NA> <NA> <NA> <NA>   
## [456] (0.24,1] <NA> (0,0.002] <NA> (0.018,0.24]   
## [461] <NA> <NA> (0,0.002] (0.24,1] <NA>   
## [466] (0,0.002] <NA> (0,0.002] (0.004,0.018] (0.018,0.24]   
## [471] <NA> (0.24,1] (0,0.002] (0.018,0.24] (0.018,0.24]   
## [476] <NA> <NA> <NA> <NA> <NA>   
## [481] (0.018,0.24] (0.004,0.018] (0,0.002] (0.004,0.018] (0,0.002]   
## [486] <NA> <NA> <NA> <NA> <NA>   
## [491] <NA> <NA> <NA> <NA> (0.018,0.24]   
## [496] (0.018,0.24] (0.24,1] <NA> <NA> (0.004,0.018]  
## [501] <NA> (0.24,1] (0.004,0.018] (0.018,0.24] (0.002,0.004]  
## [506] <NA> <NA> (0.004,0.018] (0,0.002] <NA>   
## [511] <NA> (0.004,0.018] (0.018,0.24] <NA> <NA>   
## [516] (0.004,0.018] (0.018,0.24] <NA> (0.018,0.24] (0,0.002]   
## [521] <NA> <NA> <NA> (0.004,0.018] <NA>   
## [526] <NA> (0,0.002] <NA> (0.24,1] <NA>   
## [531] (0.24,1] (0.002,0.004] <NA> (0.24,1] <NA>   
## [536] <NA> (0.24,1] (0.24,1] (0.24,1] (0,0.002]   
## [541] (0.018,0.24] (0.018,0.24] <NA> <NA> <NA>   
## [546] (0.004,0.018] <NA> <NA> (0,0.002] <NA>   
## [551] (0.004,0.018] <NA> <NA> (0.24,1] (0,0.002]   
## [556] <NA> <NA> <NA> (0.24,1] <NA>   
## [561] <NA> <NA> <NA> (0.004,0.018] <NA>   
## [566] <NA> <NA> <NA> <NA> (0,0.002]   
## [571] (0.24,1] (0.004,0.018] (0.018,0.24] <NA> <NA>   
## [576] <NA> <NA> <NA> <NA> (0,0.002]   
## [581] <NA> <NA> (0.018,0.24] (0,0.002] (0,0.002]   
## [586] <NA> (0,0.002] (0.24,1] <NA> <NA>   
## [591] (0,0.002] <NA> <NA> (0,0.002] <NA>   
## [596] (0,0.002] (0,0.002] <NA> <NA> <NA>   
## [601] (0.018,0.24] <NA> (0,0.002] (0.004,0.018] (0.004,0.018]  
## [606] <NA> (0,0.002] (0.24,1] (0,0.002] <NA>   
## [611] <NA> <NA> (0.018,0.24] (0.24,1] <NA>   
## [616] <NA> (0.24,1] <NA> (0.002,0.004] (0.002,0.004]  
## [621] <NA> (0.018,0.24] <NA> (0.018,0.24] (0.002,0.004]  
## [626] <NA> <NA> (0.018,0.24] (0.018,0.24] (0.004,0.018]  
## [631] (0,0.002] (0,0.002] <NA> (0.018,0.24] <NA>   
## [636] <NA> (0,0.002] <NA> (0.24,1] <NA>   
## [641] <NA> <NA> (0,0.002] (0.018,0.24] (0,0.002]   
## [646] <NA> (0.018,0.24] (0,0.002] <NA> <NA>   
## [651] (0.24,1] <NA> <NA> <NA> <NA>   
## [656] <NA> <NA> <NA> (0.018,0.24] <NA>   
## [661] (0.24,1] <NA> <NA> (0.004,0.018] <NA>   
## [666] (0.004,0.018] <NA> (0.24,1] (0.004,0.018] <NA>   
## [671] (0.018,0.24] (0.24,1] <NA> (0.018,0.24] (0,0.002]   
## [676] (0.002,0.004] <NA> (0,0.002] (0.24,1] <NA>   
## [681] (0.004,0.018] <NA> (0.004,0.018] (0.018,0.24] <NA>   
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## [691] <NA> <NA> <NA> <NA> <NA>   
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## [3126] (0.002,0.004] <NA> (0,0.002] (0.004,0.018] <NA>   
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## [3136] (0.004,0.018] (0.018,0.24] <NA> <NA> <NA>   
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## [3221] <NA> (0.004,0.018] (0,0.002] <NA> (0.004,0.018]  
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## [3231] <NA> <NA> (0.004,0.018] (0.018,0.24] <NA>   
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## [3256] <NA> <NA> <NA> (0.24,1] <NA>   
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## [3306] <NA> <NA> <NA> (0,0.002] <NA>   
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## [3361] <NA> <NA> <NA> <NA> <NA>   
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## [3386] <NA> <NA> <NA> <NA> (0.24,1]   
## [3391] (0.004,0.018] (0.002,0.004] (0.24,1] <NA> <NA>   
## [3396] (0.018,0.24] <NA> <NA> <NA> (0.018,0.24]   
## [3401] (0,0.002] <NA> <NA> <NA> <NA>   
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## [3431] <NA> <NA> <NA> (0.018,0.24] <NA>   
## [3436] <NA> (0.002,0.004] (0,0.002] (0,0.002] (0.004,0.018]  
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## [3471] <NA> <NA> <NA> <NA> (0,0.002]   
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## Levels: (0,0.002] (0.002,0.004] (0.004,0.018] (0.018,0.24] (0.24,1]

print(RF\_OutPut\_Test$deciles)

## [1] (0.002,0.008] <NA> (0.21,1] (0.21,1] (0.008,0.03]   
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## [791] <NA> <NA> <NA> <NA> (0.008,0.03]   
## [796] <NA> <NA> (0.03,0.21] <NA> (0,0.002]   
## [801] <NA> (0.03,0.21] <NA> (0.008,0.03] <NA>   
## [806] <NA> (0.002,0.008] <NA> (0.008,0.03] <NA>   
## [811] <NA> (0,0.002] <NA> <NA> (0.21,1]   
## [816] (0.008,0.03] <NA> (0,0.002] <NA> (0.21,1]   
## [821] <NA> <NA> <NA> <NA> (0.002,0.008]  
## [826] <NA> (0.21,1] (0,0.002] <NA> <NA>   
## [831] (0.008,0.03] (0.002,0.008] (0,0.002] (0,0.002] (0.008,0.03]   
## [836] (0.008,0.03] <NA> <NA> <NA> <NA>   
## [841] (0.21,1] <NA> (0.03,0.21] (0.21,1] (0,0.002]   
## [846] <NA> <NA> <NA> (0.002,0.008] (0.21,1]   
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## [856] (0.008,0.03] <NA> (0.21,1] <NA> (0.03,0.21]   
## [861] (0.008,0.03] <NA> <NA> (0.21,1] (0,0.002]   
## [866] <NA> <NA> <NA> (0.002,0.008] <NA>   
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## [876] <NA> <NA> <NA> <NA> (0.008,0.03]   
## [881] <NA> <NA> (0.002,0.008] (0,0.002] <NA>   
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## [891] <NA> <NA> <NA> <NA> <NA>   
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## [926] <NA> <NA> <NA> <NA> <NA>   
## [931] <NA> <NA> (0.03,0.21] (0,0.002] (0,0.002]   
## [936] <NA> (0.03,0.21] <NA> (0.21,1] (0.21,1]   
## [941] <NA> (0.21,1] <NA> (0.21,1] <NA>   
## [946] (0.21,1] <NA> <NA> (0.03,0.21] <NA>   
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## [961] <NA> (0.21,1] <NA> (0,0.002] (0.008,0.03]   
## [966] (0,0.002] <NA> <NA> (0.03,0.21] (0,0.002]   
## [971] (0.03,0.21] (0.03,0.21] <NA> <NA> (0,0.002]   
## [976] <NA> <NA> <NA> (0.21,1] <NA>   
## [981] (0.21,1] (0.21,1] (0.002,0.008] (0.21,1] (0.008,0.03]   
## [986] <NA> <NA> <NA> (0,0.002] (0.03,0.21]   
## [991] <NA> (0,0.002] <NA> (0,0.002] (0.002,0.008]  
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## [1011] <NA> (0.008,0.03] (0.03,0.21] <NA> <NA>   
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## [1021] (0.21,1] <NA> <NA> <NA> <NA>   
## [1026] <NA> <NA> <NA> <NA> <NA>   
## [1031] <NA> <NA> (0,0.002] <NA> (0.03,0.21]   
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## [1051] <NA> <NA> (0.002,0.008] <NA> <NA>   
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## [1061] (0.002,0.008] <NA> (0,0.002] <NA> (0.21,1]   
## [1066] <NA> (0.008,0.03] (0,0.002] <NA> <NA>   
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## [1076] <NA> <NA> <NA> <NA> (0,0.002]   
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## [1096] (0.03,0.21] (0,0.002] (0.008,0.03] (0.21,1] (0.21,1]   
## [1101] <NA> <NA> (0.21,1] <NA> (0.03,0.21]   
## [1106] (0.008,0.03] (0.008,0.03] (0.03,0.21] (0.002,0.008] (0.008,0.03]   
## [1111] (0,0.002] (0.03,0.21] <NA> (0.21,1] <NA>   
## [1116] (0.03,0.21] (0.03,0.21] (0.03,0.21] (0,0.002] (0.21,1]   
## [1121] (0,0.002] <NA> (0.03,0.21] (0.002,0.008] <NA>   
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## [1141] <NA> (0.21,1] (0.002,0.008] <NA> <NA>   
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## [1151] (0.03,0.21] <NA> <NA> <NA> <NA>   
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## [1161] (0.03,0.21] <NA> (0.03,0.21] (0.002,0.008] <NA>   
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## [1171] <NA> <NA> <NA> (0.008,0.03] <NA>   
## [1176] (0.03,0.21] <NA> (0.03,0.21] <NA> <NA>   
## [1181] (0,0.002] (0.03,0.21] (0.21,1] (0,0.002] (0.21,1]   
## [1186] <NA> (0,0.002] <NA> <NA> (0,0.002]   
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## [1196] <NA> (0.03,0.21] <NA> <NA> <NA>   
## [1201] (0.03,0.21] <NA> <NA> (0.002,0.008] <NA>   
## [1206] (0.002,0.008] (0.002,0.008] <NA> (0,0.002] <NA>   
## [1211] <NA> <NA> <NA> <NA> (0.03,0.21]   
## [1216] <NA> <NA> <NA> <NA> (0.03,0.21]   
## [1221] (0,0.002] <NA> <NA> <NA> (0.002,0.008]  
## [1226] (0.002,0.008] <NA> <NA> <NA> <NA>   
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## [1246] <NA> (0.002,0.008] (0.008,0.03] <NA> <NA>   
## [1251] (0.002,0.008] <NA> (0.03,0.21] (0.03,0.21] (0.03,0.21]   
## [1256] <NA> (0.03,0.21] <NA> (0,0.002] (0.002,0.008]  
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## [1281] (0,0.002] (0.21,1] (0.008,0.03] <NA> <NA>   
## [1286] (0,0.002] (0.002,0.008] <NA> <NA> (0,0.002]   
## [1291] (0.03,0.21] <NA> <NA> <NA> (0.03,0.21]   
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## [1306] <NA> (0,0.002] <NA> <NA> (0,0.002]   
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## [1381] <NA> (0.03,0.21] <NA> (0,0.002] <NA>   
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## [1396] (0.008,0.03] (0.002,0.008] <NA> <NA> <NA>   
## [1401] <NA> (0.008,0.03] <NA> (0.03,0.21] (0.21,1]   
## [1406] (0.03,0.21] (0.21,1] <NA> <NA> (0,0.002]   
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## [1431] (0.21,1] <NA> (0.002,0.008] <NA> <NA>   
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## [1441] <NA> (0.002,0.008] <NA> <NA> <NA>   
## [1446] (0,0.002] (0.008,0.03] <NA> <NA> (0,0.002]   
## [1451] (0.002,0.008] (0.03,0.21] (0,0.002] <NA> (0.008,0.03]   
## [1456] (0.008,0.03] (0.03,0.21] (0.03,0.21] (0.21,1] <NA>   
## [1461] (0.21,1] (0.002,0.008] (0.03,0.21] <NA> <NA>   
## [1466] (0.03,0.21] (0,0.002] <NA> (0.03,0.21] (0.008,0.03]   
## [1471] (0.008,0.03] <NA> (0.008,0.03] <NA> (0.03,0.21]   
## [1476] (0.002,0.008] (0.21,1] <NA> <NA> <NA>   
## [1481] (0,0.002] <NA> <NA> (0.21,1] (0.03,0.21]   
## [1486] <NA> <NA> <NA> <NA> <NA>   
## [1491] (0.002,0.008] (0.03,0.21] (0,0.002] (0,0.002] (0,0.002]   
## [1496] <NA> (0.002,0.008] <NA> <NA> (0,0.002]   
## Levels: (0,0.002] (0.002,0.008] (0.008,0.03] (0.03,0.21] (0.21,1]

head(RF\_OutPut\_Train)

## # A tibble: 6 x 16  
## Age..in.years. Experience..in.~ Income..in.K.mo~ ZIP.Code Family.members CCAvg  
## <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 25 1 49 91107 4 1.6  
## 2 39 15 11 94720 1 1   
## 3 35 9 100 94112 1 2.7  
## 4 35 8 45 91330 4 1   
## 5 37 13 29 92121 4 0.4  
## 6 50 24 22 93943 1 0.3  
## # ... with 10 more variables: Education <dbl>, Mortgage <dbl>,  
## # Personal.Loan <fct>, Securities.Account <dbl>, CD.Account <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Predict.Class <fct>, Predict.Score <dbl>,  
## # deciles <fct>

head(RF\_OutPut\_Test)

## # A tibble: 6 x 16  
## Age..in.years. Experience..in.~ Income..in.K.mo~ ZIP.Code Family.members CCAvg  
## <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 45 19 34 90089 3 1.5  
## 2 53 27 72 91711 2 1.5  
## 3 34 9 180 93023 1 8.9  
## 4 48 23 114 93106 2 3.8  
## 5 67 41 112 91741 1 2   
## 6 60 30 22 95054 1 1.5  
## # ... with 10 more variables: Education <dbl>, Mortgage <dbl>,  
## # Personal.Loan <dbl>, Securities.Account <dbl>, CD.Account <dbl>,  
## # Online <dbl>, CreditCard <dbl>, Predict.Class <fct>, Predict.Score <dbl>,  
## # deciles <fct>

#RF\_Rank Order Table - Building Blocks

library(data.table)  
RF\_Train\_DT = data.table(RF\_OutPut\_Train)  
RF\_Test\_DT = data.table(RF\_OutPut\_Test)#Convert data in DT  
View(RF\_Train\_DT)  
RF\_Train\_rnk\_tbl = RF\_Train\_DT[ ,list(cnt = length(RF\_Train\_DT$Personal.Loan),cnt\_tar1 =sum(RF\_Train\_DT$Personal.Loan=="1"),cnt\_tar0 =sum(RF\_Train\_DT$Personal.Loan=="0")),by= deciles][order(-deciles)] #Base Count, Right and worng   
RF\_Train\_rnk\_tbl$rrate= round(RF\_Train\_rnk\_tbl$cnt\_tar1/RF\_Train\_rnk\_tbl$cnt)\*100 # % Right  
RF\_Train\_rnk\_tbl$Cum\_Resp = cumsum(RF\_Train\_rnk\_tbl$cnt\_tar1) #Cum right  
RF\_Train\_rnk\_tbl$Cum\_Non\_Resp = cumsum(RF\_Train\_rnk\_tbl$cnt\_tar0) #Cum wrong  
RF\_Train\_rnk\_tbl$Cum\_rel\_resp= round(RF\_Train\_rnk\_tbl$Cum\_Resp/sum(RF\_Train\_rnk\_tbl$cnt\_tar1),4)\*100 # % Cum right  
RF\_Train\_rnk\_tbl$Cum\_rel\_Non\_resp= round(RF\_Train\_rnk\_tbl$Cum\_Non\_Resp/sum(RF\_Train\_rnk\_tbl$cnt\_tar0),4)\*100 # % Cum wrong  
RF\_Train\_rnk\_tbl$Ks= abs(RF\_Train\_rnk\_tbl$Cum\_rel\_resp-RF\_Train\_rnk\_tbl$Cum\_rel\_Non\_resp) # Ks  
print(RF\_Train\_rnk\_tbl)

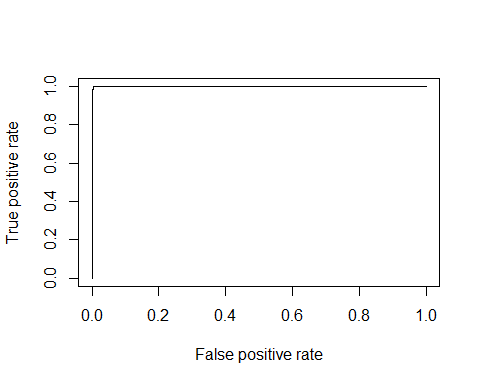
## deciles cnt cnt\_tar1 cnt\_tar0 rrate Cum\_Resp Cum\_Non\_Resp  
## 1: (0.24,1] 3500 336 3164 0 336 3164  
## 2: (0.018,0.24] 3500 336 3164 0 672 6328  
## 3: (0.004,0.018] 3500 336 3164 0 1008 9492  
## 4: (0.002,0.004] 3500 336 3164 0 1344 12656  
## 5: (0,0.002] 3500 336 3164 0 1680 15820  
## 6: <NA> 3500 336 3164 0 2016 18984  
## Cum\_rel\_resp Cum\_rel\_Non\_resp Ks  
## 1: 16.67 16.67 0  
## 2: 33.33 33.33 0  
## 3: 50.00 50.00 0  
## 4: 66.67 66.67 0  
## 5: 83.33 83.33 0  
## 6: 100.00 100.00 0

RF\_Test\_rnk\_tbl = RF\_Test\_DT[ ,list(cnt = length(RF\_Test\_DT$Personal.Loan),cnt\_tar1 =sum(RF\_Test\_DT$Personal.Loan=="1"),cnt\_tar0 =sum(RF\_Test\_DT$Personal.Loan=="0")),by=deciles][order(-deciles)]  
RF\_Test\_rnk\_tbl$rrate= round(RF\_Test\_rnk\_tbl$cnt\_tar1/RF\_Test\_rnk\_tbl$cnt)\*100  
RF\_Test\_rnk\_tbl$Cum\_Resp = cumsum(RF\_Test\_rnk\_tbl$cnt\_tar1)  
RF\_Test\_rnk\_tbl$Cum\_Non\_Resp = cumsum(RF\_Test\_rnk\_tbl$cnt\_tar0)  
RF\_Test\_rnk\_tbl$Cum\_rel\_resp= round(RF\_Test\_rnk\_tbl$Cum\_Resp/sum(RF\_Test\_rnk\_tbl$cnt\_tar1),4)\*100  
RF\_Test\_rnk\_tbl$Cum\_rel\_Non\_resp= round(RF\_Test\_rnk\_tbl$Cum\_Non\_Resp/sum(RF\_Test\_rnk\_tbl$cnt\_tar0),4)\*100  
RF\_Test\_rnk\_tbl$Ks= abs(RF\_Test\_rnk\_tbl$Cum\_rel\_resp-RF\_Test\_rnk\_tbl$Cum\_rel\_Non\_resp)  
print(RF\_Test\_rnk\_tbl)

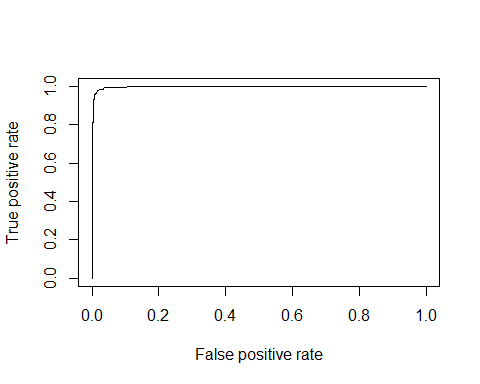
## deciles cnt cnt\_tar1 cnt\_tar0 rrate Cum\_Resp Cum\_Non\_Resp  
## 1: (0.21,1] 1500 144 1356 0 144 1356  
## 2: (0.03,0.21] 1500 144 1356 0 288 2712  
## 3: (0.008,0.03] 1500 144 1356 0 432 4068  
## 4: (0.002,0.008] 1500 144 1356 0 576 5424  
## 5: (0,0.002] 1500 144 1356 0 720 6780  
## 6: <NA> 1500 144 1356 0 864 8136  
## Cum\_rel\_resp Cum\_rel\_Non\_resp Ks  
## 1: 16.67 16.67 0  
## 2: 33.33 33.33 0  
## 3: 50.00 50.00 0  
## 4: 66.67 66.67 0  
## 5: 83.33 83.33 0  
## 6: 100.00 100.00 0

#RF\_ ROC, AUC and Gini - Model performance

library(ROCR)  
library(ineq)  
RF\_pred\_Obj\_Train = prediction(RF\_OutPut\_Train$Predict.Score, RF\_OutPut\_Train$Personal.Loan) # Building ROC and compare  
RF\_pref\_Train = performance(RF\_pred\_Obj\_Train, "tpr","fpr") # Calculate TPR and FPR  
plot(RF\_pref\_Train) # Plot performance curve



RF\_pred\_Obj\_Test = prediction(RF\_OutPut\_Test$Predict.Score, RF\_OutPut\_Test$Personal.Loan) # Building ROC and compare  
RF\_pref\_Test = performance(RF\_pred\_Obj\_Test, "tpr","fpr") # Calculate TPR and FPR  
plot(RF\_pref\_Test) # Plot performance curve



#Calculate KS  
RF\_Train\_Ks = max(RF\_pref\_Train@y.values[[1]]-RF\_pref\_Train@x.values[[1]])  
print(RF\_Train\_Ks) #K is 99.5

## [1] 0.9933628

RF\_Test\_Ks = max(RF\_pref\_Test@y.values[[1]]-RF\_pref\_Test@x.values[[1]])  
print(RF\_Test\_Ks) #K is 96.8

## [1] 0.9647247

#Calculate AUC  
RF\_AUC\_Train = performance(RF\_pred\_Obj\_Train,"auc")  
RF\_AUC\_Train = as.numeric(RF\_AUC\_Train@y.values)  
print (RF\_AUC\_Train) # AUC is ~100

## [1] 0.999842

RF\_AUC\_Test = performance(RF\_pred\_Obj\_Test,"auc")  
RF\_AUC\_Test = as.numeric(RF\_AUC\_Test@y.values)  
print (RF\_AUC\_Test) # AUC is ~99.8

## [1] 0.9977082

#Calculate Gini  
RF\_Gini\_Train = ineq(RF\_OutPut\_Train$Predict.Score,"gini")  
RF\_Gini\_Test = ineq(RF\_OutPut\_Test$Predict.Score,"gini")  
print(RF\_Gini\_Train) # Gini equal 0.898

## [1] 0.8930766

print(RF\_Gini\_Test) # Gini equal 0.898

## [1] 0.8882636

#RF\_ Concordance and Discordance ratios’

library(InformationValue)  
Concordance(actuals = RF\_OutPut\_Train$Personal.Loan, predictedScores = RF\_OutPut\_Train$Predict.Score)

## $Concordance  
## [1] 0.999842  
##   
## $Discordance  
## [1] 0.0001580278  
##   
## $Tied  
## [1] 2.005774e-17  
##   
## $Pairs  
## [1] 1063104

#Concordance 0.9998504  
#Discordance 0.000149562  
#Tied 2.493665e-17  
Concordance(actuals = RF\_OutPut\_Test$Personal.Loan, predictedScores = RF\_OutPut\_Test$Predict.Score)

## $Concordance  
## [1] 0.9976698  
##   
## $Discordance  
## [1] 0.002330179  
##   
## $Tied  
## [1] 4.466913e-17  
##   
## $Pairs  
## [1] 195264

#Concordance 0.9977927  
#Discordance 0.002207268  
#Tied -7.806256e-18