KNN (credit)

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## R Markdown

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#Step1: summary of the data

library(pROC)

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

##   
## Attaching package: 'pROC'

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

Data0 <-read.csv("C:/Users/KARISHMA/Desktop/FALL ()/PredA/Group4\_data2.csv")  
View(Data0)  
  
Data0$TARGET <- as.factor(Data0$TARGET)  
Data0$NAME\_EDUCATION\_TYPE <- as.factor(Data0$NAME\_EDUCATION\_TYPE)  
Data0$FLAG\_OWN\_CAR <- as.factor(Data0$FLAG\_OWN\_CAR)  
Data0$FLAG\_OWN\_REALTY <- as.factor(Data0$FLAG\_OWN\_REALTY)  
Data0$JOB <- as.factor(Data0$JOB)  
Data0$NAME\_HOUSING\_TYPE <- as.factor(Data0$NAME\_HOUSING\_TYPE)  
Data0$CNT\_CHILDREN <- as.factor(Data0$CNT\_CHILDREN)  
  
Data0$NAME\_EDUCATION\_TYPE <- as.numeric(Data0$NAME\_EDUCATION\_TYPE)  
Data0$DAYS\_EMPLOYED <- as.numeric(Data0$DAYS\_EMPLOYED)  
Data0$FLAG\_OWN\_CAR <- as.numeric(Data0$FLAG\_OWN\_CAR)  
Data0$FLAG\_OWN\_REALTY <- as.numeric(Data0$FLAG\_OWN\_REALTY)  
Data0$NAME\_HOUSING\_TYPE <- as.numeric(Data0$NAME\_HOUSING\_TYPE)  
Data0$JOB <- as.numeric(Data0$JOB)  
Data0$CNT\_CHILDREN <- as.numeric(Data0$CNT\_CHILDREN)  
  
Data <- subset(Data0, select = -c(X,FLAG\_MOBIL,STATUS,FLAG\_EMAIL,CODE\_GENDER,FLAG\_WORK\_PHONE,FLAG\_PHONE,DAYS\_BIRTH,NAME\_FAMILY\_STATUS ) )

#Step: View the data after the cleaning

View(Data)

#Step3: Normalizing the data

normalize <- function(x) {return ((x - min(x)) / (max(x) - min(x)))}  
  
Data[,2:10] <- as.data.frame(lapply(Data[,2:9], normalize))  
head(Data)

## ID FLAG\_OWN\_CAR FLAG\_OWN\_REALTY CNT\_CHILDREN AMT\_INCOME\_TOTAL  
## 1 5065438 1 0 0.5 0.15697674  
## 2 5067057 1 1 1.0 0.07558140  
## 3 5149050 0 0 0.5 0.06976744  
## 4 5095306 1 1 1.0 0.12790698  
## 5 5022248 0 1 1.0 0.11337209  
## 6 5023934 0 1 0.5 0.06976744  
## NAME\_EDUCATION\_TYPE NAME\_HOUSING\_TYPE DAYS\_EMPLOYED JOB BEGIN\_MONTHS  
## 1 1.00 1.0 0.8545489 0.5882353 1  
## 2 1.00 0.2 0.8125637 0.1764706 1  
## 3 1.00 0.2 0.6839959 0.4705882 0  
## 4 0.25 0.2 0.7642712 0.1764706 1  
## 5 1.00 0.2 0.4675076 0.2941176 0  
## 6 1.00 0.2 0.8477319 0.1764706 0  
## TARGET  
## 1 0  
## 2 0  
## 3 0  
## 4 0  
## 5 0  
## 6 0

#Step4.1: Constructing Training and Test subsets from latest dataset (70%:30%)

set.seed(10102)  
# getting randomly selected (without replacement strategy) Row numbers for training set  
index1 <- sample(nrow(Data), size=0.7\*nrow(Data), replace=FALSE, )  
  
#Create Training data set and view it randomly selected 70% row numbers of the full dataset  
Data\_train1 <- Data[index1, ]  
View(Data\_train1)  
  
#Create Test data set and view it, i.e. remaining 30% of full dataset  
Data\_test1<- Data[-index1, ]  
View(Data\_test1)

#Step4.2: Constructing Training and Test subsets from latest dataset (75%:25%)

set.seed(10102)   
  
# getting randomly selected (without replacement strategy) Row numbers for training set  
index2 <- sample(nrow(Data), size=0.75\*nrow(Data), replace=FALSE, )  
  
#Training data set and view it: randomly selected 75% row numbers of the full dataset  
Data\_train2 <- Data[index2, ]  
View(Data\_train2)  
  
#Test data set and view it i.e. remaining 25% of full dataset  
Data\_test2<- Data[-index2, ]  
View(Data\_test2)

#Step4.3: Constructing Training and Test subsets from latest dataset (98%:2%)

set.seed(10102)  
  
# getting randomly selected Row numbers for training set  
index3 <- sample(nrow(Data), size=0.98\*nrow(Data), replace=FALSE, )  
  
#Create Training data set and view it: randomly selected 80% row numbers of the full dataset  
Data\_train3 <- Data[index3, ]  
View(Data\_train3)  
  
#Create Test data set and view it i.e. remaining % of full dataset  
Data\_test3<- Data[-index3, ]  
View(Data\_test3)

#Step5: Creating a different variable for storing the value of the TARGET

Data\_train\_labels1 <- Data[index1, 10]  
Data\_test\_labels1 <- Data[-index1, 10]  
  
Data\_train\_labels2 <- Data[index2, 10]  
Data\_test\_labels2 <- Data[-index2, 10]  
  
Data\_train\_labels3 <- Data[index3, 10]  
Data\_test\_labels3 <- Data[-index3, 10]

#Step6: Applying the KNN for the given three models respectively #Step6.1: Split dataset for Training and testing (70%:30%)

library(class)  
knn1 <- knn(train=Data\_train1, test=Data\_test1, cl=Data\_train\_labels1, k=5)  
ACC26 <- sum(Data\_test\_labels1 == knn1) / NROW(Data\_test\_labels1)  
print(ACC26 \* 100)

## [1] 98.18425

print(knn1)

## [1] 1 0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 1 1 1 0 1 1 1 0 0 0 1 1  
## [37] 1 1 1 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 0 0  
## [73] 0 1 1 0 1 0 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 1 1 0 0 0 1 0 1 1 0 0 1 0 0 0  
## [109] 0 0 0 0 1 1 0 1 0 0 1 0 1 1 0 0 1 1 1 0 0 1 0 1 1 1 0 1 1 0 0 0 0 1 0 0  
## [145] 1 1 1 0 1 0 0 0 0 0 0 1 1 0 1 0 1 0 0 0 1 1 0 0 0 1 1 0 1 1 1 0 0 0 0 1  
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## [505] 0 0 0 1 1 0 0 0 0 0 0 1 0 1 0 0 0 1 0 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0  
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## [865] 0 0 0 0 1 0 1 0 1 1 0 0 0 0 0 1 1 1 0 0 1 1 1 0 0 0 1 0 0 0 1 0 0 0 0 0  
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## [1045] 1 0 0 0 0 1 1 0 0 1 0 1 0 1 1 1 1 1 1 1 0 1 0 0 0 1 1 0 1 1 1 0 0 0 1 0  
## [1081] 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 1 0 1 1 1 1 0 1 1 1 1 0 0 0 0 0 1 0 1 1 0  
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## [2017] 1 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0 0 1  
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## [3385] 1 0 0 1 0 1 0 0 1 0 1 1 1 0 1 0 1 0 0 1 1 0 1 1 1 1 1 1 0 1 0 1 0 0 0 0  
## [3421] 1 1 0 1 0 1 0 0 1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 1 0 1 0 1 0 0 1 1 0 0 0 1  
## [3457] 1 1 1 0 0 1 1 1 1 1 0 1 0 0 1 1 1 1 1 1 0 1 0 0 0 1 0 0 1 0 1 1 1 1 1 0  
## [3493] 0 0 1 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 0 1 0 0 0 0 0 1 1 0 1 0 1 0 0 1 0 0  
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## [3601] 0 0 0 1 0 0 0 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 0 1 1 1 1 0 0 1 0 1 0 0 0 1  
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## [4897] 1 1 0 0 1 1 0 1 0 0 0 0 0 1 0 0 0 1 0 1 1 0 1 0 0 0 1 0 0 0 1 0 1 1 0 0  
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## [53785] 0 0 0 0 0 1 0 1 0 1 1 1 1 0 1 1 0 0 1 0 1 0 0  
## Levels: 0 1

#Step6.2: Split dataset for Training and testing (75%:25%)

knn2 <- knn(train = Data\_train2, test = Data\_test2, cl=Data\_train\_labels2, k= 10)  
print(knn2)

## [1] 1 0 0 0 1 0 1 1 0 0 1 0 0 1 1 0 1 0 0 1 1 1 0 1 1 1 0 0 1 1 1 1 0 0 0 0  
## [37] 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 0 0 0 1 0 1 0 1 0  
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## [43957] 1 1 1 0 1 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0 0 1 1 1 1 0 0 1 0 0 0 0 1 0 0 0  
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## [44029] 0 1 1 1 0 0 0 0 0 1 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 0 1 1 1 1 1 1 0 0 1 0  
## [44065] 0 0 1 1 1 1 1 0 1 0 0 0 1 0 0 0 0 0 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 1 1 0  
## [44101] 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 1 1 0 0 1 0 1 1 0 0 0 1 0 1 0 0 0 0 0 1 1  
## [44137] 1 1 1 0 1 1 1 0 1 1 0 1 0 0 1 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 1  
## [44173] 0 0 1 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1 1 1 1 0 0 1 0 0 1 1 0 1 1 0  
## [44209] 1 1 0 0 1 0 1 1 0 0 0 1 0 0 1 1 0 0 0 0 0 0 0 1 0 1 0 1 0 0 0 0 1 0 1 1  
## [44245] 0 0 0 0 0 0 1 1 1 1 0 1 0 1 1 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 0 1 0 1 0 1  
## [44281] 1 1 0 1 1 1 0 1 0 0 0 0 1 0 1 1 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 1 0 1 0  
## [44317] 0 1 0 0 1 0 0 0 1 1 1 1 0 1 0 1 0 1 0 0 1 0 1 0 0 0 0 1 1 0 1 0 1 0 0 0  
## [44353] 0 0 0 0 0 0 0 1 1 1 1 1 0 0 1 1 0 1 0 1 1 0 0 1 1 1 1 0 1 1 0 1 1 0 0 0  
## [44389] 1 0 0 1 1 1 1 1 0 1 0 1 0 0 0 0 0 1 0 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0  
## [44425] 0 0 1 0 0 1 0 1 0 1 0 0 1 0 1 0 0 0 1 1 1 0 0 1 0 1 1 1 0 1 0 0 0 1 0 1  
## [44461] 0 1 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 1 0 1 0 0 0 1 0 1 0 1 1 0 1 1 1 0 1 1  
## [44497] 0 1 0 0 1 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 0 0 0 1 1 1 1 1 1 0 0 1 0  
## [44533] 1 1 1 1 1 0 0 0 0 1 1 1 0 1 0 1 1 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 1 0 1 1  
## [44569] 0 1 0 1 1 1 0 0 1 0 0 1 1 1 0 1 1 0 0 1 0 1 1 0 1 0 0 0 0 1 1 1 0 0 0 0  
## [44605] 1 0 0 1 0 1 0 1 1 1 1 1 0 1 1 1 1 1 1 0 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 1  
## [44641] 1 0 0 1 1 1 0 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 1 0 1 1 0 0 0 0 0 0 1 1 0  
## [44677] 1 0 1 0 0 1 1 1 0 0 1 0 1 1 0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0  
## [44713] 0 1 1 0 1 0 1 0 0 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 1 1  
## [44749] 0 0 0 0 0 1 0 0 0 0 1 0 1 1 1 0 1 1 1 0 1 1 0 0 1 0 1 0 0 1 0 1 1 0 1 0  
## [44785] 0 1 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 0 1 0 1 0 1 1 1 0 1 0 1 0 1 0 1 0  
## [44821] 0 0 0 1 1 0 1 1 1 1 0 1 1 0 0 1 0 1 0  
## Levels: 0 1

ACC15 <- sum(Data\_test\_labels2 == knn2) / NROW(Data\_test\_labels2)  
print(ACC15 \* 100)

## [1] 96.32686

#Step6.3: Split dataset for Training and testing (98%:2%)

knn3 <- knn(train = Data\_train3, test = Data\_test3, cl=Data\_train\_labels3, k= 8)  
print(knn3)

## [1] 1 0 0 0 0 0 0 1 0 1 1 0 0 1 0 0 1 1 1 1 1 0 0 0 1 1 0 0 1 1 0 0 0 0 0 1 1  
## [38] 1 0 0 1 1 0 0 1 1 0 1 0 0 0 0 1 1 0 0 1 0 0 1 1 1 1 0 0 1 1 0 1 0 0 0 1 1  
## [75] 0 0 1 0 1 0 1 1 0 0 0 0 0 0 1 1 0 1 0 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0  
## [112] 0 1 0 1 1 0 0 0 0 1 0 0 0 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0 1 1 1 0 0 1 1 1 1  
## [149] 1 0 0 1 1 0 1 1 0 0 1 0 1 0 1 1 0 0 0 0 1 0 1 1 0 0 0 0 1 0 1 1 1 0 0 0 0  
## [186] 1 0 1 0 0 1 0 1 1 0 1 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0  
## [223] 1 1 1 1 0 1 1 0 1 0 1 1 0 0 0 0 1 0 1 0 1 0 0 1 1 0 0 0 1 0 0 1 0 0 0 1 1  
## [260] 0 1 1 0 1 0 1 1 1 0 1 1 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 0 1 0 1 1 1 0 1 1 1  
## [297] 1 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 1 0 0 1 0 1 0 1 1 0 0 1 1 0 0 1 1 0  
## [334] 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 1 1 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 0 0 0 1  
## [371] 1 1 0 1 0 0 1 0 0 1 1 1 0 1 1 0 1 1 0 0 0 0 1 0 1 0 0 1 0 0 1 0 1 0 0 0 0  
## [408] 0 1 0 1 1 0 1 0 0 0 0 1 1 1 0 0 1 1 1 1 1 1 1 1 0 1 0 1 1 0 0 0 0 0 0 0 0  
## [445] 1 0 1 0 1 1 1 1 0 0 1 0 0 0 0 1 0 1 0 0 0 1 1 1 1 0 0 1 0 1 0 1 1 0 1 1 0  
## [482] 0 1 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 1 0 0 1 1 0 1 0 1  
## [519] 1 1 0 0 1 1 0 0 1 0 0 0 1 0 0 1 1 1 1 1 0 0 0 0 1 0 1 0 1 0 1 1 0 1 1 1 1  
## [556] 1 1 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 1 0 1 1 1 1 1 0 0 0 0 1 1 1 1 0  
## [593] 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 1 1 0 0 1 1 1  
## [630] 0 1 0 1 1 0 0 0 0 0 0 0 1 1 0 0 1 1 1 1 0 0 0 0 1 0 1 1 0 0 1 1 1 0 0 1 1  
## [667] 1 1 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 1  
## [704] 0 1 0 0 0 1 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0  
## [741] 1 0 1 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 1 0 0 1  
## [778] 1 1 0 1 0 1 1 0 1 0 1 1 0 0 0 1 0 1 1 1 1 1 1 0 0 0 1 1 1 0 1 0 0 1 0 0 0  
## [815] 0 1 0 0 0 0 1 1 1 1 0 1 0 0 1 1 0 1 1 1 1 0 1 1 0 0 1 0 0 0 0 0 1 1 1 0 0  
## [852] 0 0 0 1 1 0 0 1 0 0 1 0 1 1 1 0 0 0 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1  
## [889] 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 1 0 0 0 1 0 1 0 0 1 0 0 0 1 1 1 1 0 0 0 0 1  
## [926] 0 1 0 1 1 0 0 1 1 1 1 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 1 0 0 1 0 1 1 0 1  
## [963] 0 1 0 0 1 1 0 0 1 1 1 1 0 1 1 0 1 1 1 0 0 0 0 0 1 1 0 1 0 1 0 1 0 1 0 0 0  
## [1000] 0 0 1 0 0 0 0 1 0 1 0 0 1 0 0 1 1 1 1 0 0 1 1 1 0 1 1 0 1 1 1 1 0 1 0 0 0  
## [1037] 0 0 0 0 0 0 1 0 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 1 1 0 0 0 0 1 0 1 0 0 0 1 1  
## [1074] 1 0 0 0 1 0 1 0 1 0 0 0 1 0 0 1 1 0 0 0 0 0 1 1 0 1 0 0 1 1 1 1 0 0 1 0 0  
## [1111] 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 1 1 0 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 1  
## [1148] 1 0 0 0 0 1 1 0 0 1 0 0 0 0 0 1 0 0 1 1 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1  
## [1185] 0 1 0 0 1 0 1 0 0 0 0 1 1 0 1 1 1 0 1 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1 1 0 1  
## [1222] 1 0 0 0 0 1 1 1 0 1 0 1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 0 1 1 1 1 1 0 1 0 0 1  
## [1259] 0 0 0 1 0 1 1 0 0 0 1 1 1 0 1 0 0 1 0 1 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0  
## [1296] 0 0 1 0 0 0 0 0 0 1 0 1 0 0 1 1 0 1 1 0 0 1 0 1 1 0 1 0 1 0 0 0 1 1 0 0 0  
## [1333] 0 0 0 0 0 0 1 0 0 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 1 1 0 1 1 1 0  
## [1370] 0 1 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 0 1 1 1 0 1 1 1 0 0 1 0 0 0 0 1 1 1 1 1  
## [1407] 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 0 1 1 0 1 0 1 0 1 1 1 0 0 1 0 0 0 1 1 0 0  
## [1444] 1 0 0 0 0 1 1 0 1 1 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 0 1 0 1 1 1 1 0 0 1 0  
## [1481] 0 0 0 1 0 0 0 0 0 0 0 1 1 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 0  
## [1518] 0 0 1 1 0 0 1 0 1 0 1 0 1 1 0 0 0 1 1 1 0 1 0 1 1 1 1 0 1 0 0 1 0 0 1 1 1  
## [1555] 0 1 0 0 0 0 0 0 0 0 1 0 1 1 1 0 1 0 1 1 0 0 1 0 0 1 0 0 1 1 0 1 0 0 0 0 0  
## [1592] 0 1 1 0 0 0 0 0 0 1 0 0 1 1 0 0 1 0 1 1 1 0 0 0 0 1 0 0 1 1 0 0 1 0 0 0 1  
## [1629] 1 0 0 1 0 1 1 1 1 0 1 0 0 0 1 1 0 1 0 1 1 0 1 0 1 0 0 0 1 0 1 1 1 0 0 0 1  
## [1666] 0 1 0 0 1 0 1 0 1 1 0 1 0 0 0 0 1 1 0 0 0 1 0 1 1 1 1 0 1 1 0 0 1 0 0 0 1  
## [1703] 1 1 0 0 0 1 0 1 0 0 0 0 0 0 0 1 0 0 1 0 1 1 1 0 0 0 1 0 1 0 1 0 1 0 0 0 0  
## [1740] 1 0 0 1 0 0 0 0 1 0 1 1 0 0 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 1 1 1 1  
## [1777] 0 0 0 0 0 0 1 1 0 1 0 1 0 0 1 0 0 0 0 1 1 1 1 0 0 0 1 0 1 1 0 1 1 1 1 1 1  
## [1814] 1 0 0 1 1 0 0 1 0 1 1 1 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 0 0 0 1 1 1 1 0  
## [1851] 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 0 0 1 1 1 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 1 0  
## [1888] 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0 0 1 1 0 0 0 1 1 1 0 1 1 1 0 0  
## [1925] 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1 0 1 1 1 1 0 1 0 0 0 0 1 0 0 0 1 1 0  
## [1962] 1 1 0 0 1 0 1 1 0 1 1 0 0 1 1 0 1 1 1 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0  
## [1999] 1 0 1 0 1 1 0 0 0 1 1 0 1 0 0 1 1 1 0 0 0 0 0 0 1 0 1 0 1 0 1 0 0 1 1 0 0  
## [2036] 1 0 1 1 0 1 0 1 1 0 1 0 1 0 1 0 0 0 0 1 0 0 0 0 0 0 1 1 0 0 1 1 1 0 0 1 0  
## [2073] 0 1 0 1 1 0 1 0 1 0 0 0 1 0 0 1 0 0 0 0 0 1 1 1 0 1 1 0 0 0 1 0 0 0 0 1 0  
## [2110] 1 0 0 0 1 1 1 0 1 0 1 0 1 0 1 1 1 1 0 1 0 1 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0  
## [2147] 0 0 1 0 0 0 0 0 1 1 1 1 0 1 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0  
## [2184] 0 0 0 1 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 1 1 0 1 0 1 0 1 1 1 1 0 0 1 0 1 0  
## [2221] 1 1 0 0 0 0 0 0 1 1 0 1 0 0 1 1 0 1 0 1 1 0 0 0 0 1 1 1 1 0 1 1 1 1 1 0 0  
## [2258] 0 0 0 0 1 1 0 1 0 0 1 1 0 0 0 0 1 1 1 0 0 0 0 0 1 1 0 1 1 1 1 1 0 1 0 0 1  
## [2295] 0 0 1 0 1 1 0 1 0 1 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 1 0 1 1 0 0 0 1 0 1  
## [2332] 0 0 1 1 0 1 0 1 1 0 1 0 1 1 0 1 0 0 0 1 0 0 0 1 1 0 1 1 1 0 0 1 0 0 1 0 0  
## [2369] 1 1 0 1 0 0 1 1 0 0 1 1 1 0 0 0 0 1 1 0 1 1 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0  
## [2406] 0 0 1 0 1 1 0 1 0 1 1 0 1 1 1 0 1 0 1 0 0 1 0 0 1 0 1 1 0 0 0 1 1 1 0 1 1  
## [2443] 0 1 0 0 0 1 1 1 1 1 0 1 0 1 0 0 1 0 0 1 0 1 1 0 0 0 1 0 0 1 0 1 0 1 1 0 0  
## [2480] 0 0 0 1 1 1 1 1 0 0 1 0 1 1 1 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 1 1 0 1 0 1 0  
## [2517] 0 0 1 1 1 0 0 1 0 1 0 1 0 0 1 0 1 0 0 0 1 0 0 1 1 1 1 1 0 0 0 0 0 0 1 1 0  
## [2554] 1 0 1 0 0 1 0 0 0 0 0 1 1 1 0 1 0 1 0 0 0 1 1 1 0 0 1 1 0 1 1 0 0 0 0 0 0  
## [2591] 1 1 1 1 1 0 1 0 0 1 0 0 1 0 1 0 1 1 1 1 1 0 0 0 1 0 1 0 1 1 0 0 0 1 1 0 1  
## [2628] 0 1 1 0 0 0 0 1 1 1 0 0 0 1 1 0 0 1 0 1 0 1 0 0 1 0 0 1 1 1 0 0 0 0 1 0 0  
## [2665] 0 0 0 1 1 0 1 0 0 0 0 1 0 0 0 0 0 1 1 1 0 0 0 1 0 0 1 1 0 0 0 0 0 1 1 1 1  
## [2702] 0 0 0 0 1 0 0 1 1 0 1 1 1 1 1 0 1 0 1 0 1 1 1 0 0 0 1 0 1 1 1 1 0 0 0 0 0  
## [2739] 1 1 0 1 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 1 0 1 0 1 0 0 0  
## [2776] 0 1 0 1 0 1 1 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1 0 1 0 0 1 1 1 0  
## [2813] 0 0 0 1 1 1 0 0 1 1 0 1 1 0 1 1 0 1 0 0 1 1 0 1 1 0 1 0 0 1 0 0 1 1 1 1 1  
## [2850] 1 0 0 1 0 1 1 0 0 0 1 0 1 0 0 1 1 1 0 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 1 0 1  
## [2887] 0 0 0 0 1 0 1 0 1 0 0 1 0 1 1 0 1 0 0 1 0 1 1 1 0 0 0 1 0 0 0 1 0 0 1 0 1  
## [2924] 1 0 1 0 0 0 0 1 0 1 1 0 1 1 1 0 0 1 0 0 0 0 0 1 1 0 1 0 0 0 1 0 0 1 0 1 0  
## [2961] 0 0 0 0 1 0 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 1 1 1 0 0 0 1 0 1 1 0 1 0 1 0 0  
## [2998] 0 1 1 1 1 0 0 0 1 0 1 1 1 1 0 0 1 1 0 0 1 0 0 1 0 1 0 1 1 0 0 0 1 0 0 1 1  
## [3035] 0 0 1 0 0 0 0 0 0 1 1 1 0 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1 0 1 0 1 0 0  
## [3072] 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 1 1 1 1 1 0 0 1  
## [3109] 1 0 0 0 0 0 1 0 0 1 0 0 0 0 1 0 0 1 1 0 1 1 0 1 0 0 0 0 0 0 0 0 1 1 0 1 1  
## [3146] 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 1 0 1 1 0 0 1 0 1 0 0 1 0 1  
## [3183] 0 1 0 0 0 1 0 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 0 0 1 0 1 0 0 1 1 1 0 1 1 1  
## [3220] 1 1 1 0 0 1 1 0 0 0 0 0 1 1 1 0 1 1 0 1 0 0 0 0 0 1 1 0 0 1 1 1 0 0 0 1 1  
## [3257] 1 1 1 1 0 1 0 1 0 0 0 1 0 0 1 0 1 1 0 1 0 1 1 0 1 1 1 1 0 1 1 0 0 1 0 1 1  
## [3294] 0 0 1 0 0 0 1 0 1 0 0 1 0 0 1 1 0 0 1 1 1 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 0  
## [3331] 0 1 1 0 0 0 1 1 0 0 0 1 1 0 1 0 0 0 1 0 1 0 0 1 0 0 1 0 0 0 1 1 1 0 1 0 1  
## [3368] 1 0 0 0 1 1 0 1 1 0 1 1 0 0 0 0 0 0 1 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 0 1  
## [3405] 0 1 1 1 0 1 0 1 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 0 1 0 0 0 0 0 1 0 0  
## [3442] 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1 1 1 0 0 0 1 1 1 0 1 0 1 1 1 0 0  
## [3479] 0 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0 1 0 1 0 0 0 1 0 1 0 0 1 0 1 1 1 0 1 0 0 1  
## [3516] 0 1 0 0 0 0 1 0 0 1 0 0 0 1 0 1 0 1 1 1 1 1 0 0 1 0 0 1 0 0 0 0 0 0 0 1 1  
## [3553] 0 0 0 1 1 1 1 1 0 1 0 0 0 0 0 1 0 1 1 1 1 0 1 0 0 0 1 0 0 0 0 0 1 0 1 0  
## Levels: 0 1

ACC30 <- sum(Data\_test\_labels3 == knn3) / NROW(Data\_test\_labels3)  
print(ACC15 \* 100)

## [1] 96.32686

#Step7: Confusion Matrix #7.1 (70%:30%)

library(caret)

## Loading required package: ggplot2

## Loading required package: lattice

confusionMatrix(table(knn1, Data\_test\_labels1))

## Confusion Matrix and Statistics  
##   
## Data\_test\_labels1  
## knn1 0 1  
## 0 30124 439  
## 1 538 22706  
##   
## Accuracy : 0.9818   
## 95% CI : (0.9807, 0.983)  
## No Information Rate : 0.5699   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.963   
##   
## Mcnemar's Test P-Value : 0.001717   
##   
## Sensitivity : 0.9825   
## Specificity : 0.9810   
## Pos Pred Value : 0.9856   
## Neg Pred Value : 0.9769   
## Prevalence : 0.5699   
## Detection Rate : 0.5599   
## Detection Prevalence : 0.5680   
## Balanced Accuracy : 0.9817   
##   
## 'Positive' Class : 0   
##

#7.1 (75%:25%)

confusionMatrix(table(knn2, Data\_test\_labels2))

## Confusion Matrix and Statistics  
##   
## Data\_test\_labels2  
## knn2 0 1  
## 0 24667 809  
## 1 838 18525  
##   
## Accuracy : 0.9633   
## 95% CI : (0.9615, 0.965)  
## No Information Rate : 0.5688   
## P-Value [Acc > NIR] : <2e-16   
##   
## Kappa : 0.9251   
##   
## Mcnemar's Test P-Value : 0.4902   
##   
## Sensitivity : 0.9671   
## Specificity : 0.9582   
## Pos Pred Value : 0.9682   
## Neg Pred Value : 0.9567   
## Prevalence : 0.5688   
## Detection Rate : 0.5501   
## Detection Prevalence : 0.5682   
## Balanced Accuracy : 0.9627   
##   
## 'Positive' Class : 0   
##

#7.1 (98%:2%)

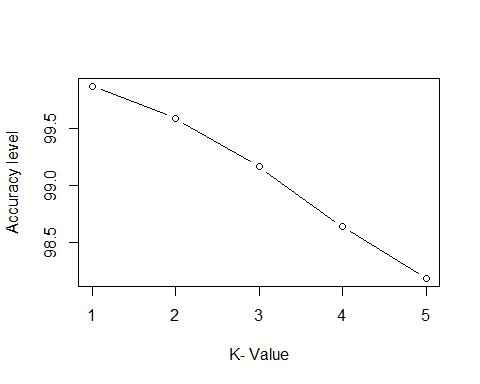
confusionMatrix(table(knn3, Data\_test\_labels3))

## Confusion Matrix and Statistics  
##   
## Data\_test\_labels3  
## knn3 0 1  
## 0 2015 36  
## 1 31 1506  
##   
## Accuracy : 0.9813   
## 95% CI : (0.9763, 0.9855)  
## No Information Rate : 0.5702   
## P-Value [Acc > NIR] : <2e-16   
##   
## Kappa : 0.9619   
##   
## Mcnemar's Test P-Value : 0.6251   
##   
## Sensitivity : 0.9848   
## Specificity : 0.9767   
## Pos Pred Value : 0.9824   
## Neg Pred Value : 0.9798   
## Prevalence : 0.5702   
## Detection Rate : 0.5616   
## Detection Prevalence : 0.5716   
## Balanced Accuracy : 0.9808   
##   
## 'Positive' Class : 0   
##

i=1  
k.optm=1  
for (i in 1:5){  
 knn.mod <- knn(train=Data\_train1, test=Data\_test1, cl=Data\_train\_labels1, k=i)  
 k.optm[i] <- 100 \* sum(Data\_test\_labels1 == knn.mod)/NROW(Data\_test\_labels1)  
 k=i  
 cat(k,'=',k.optm[i],'  
')  
}

## 1 = 99.86619   
## 2 = 99.58556   
## 3 = 99.16368   
## 4 = 98.63772   
## 5 = 98.18425

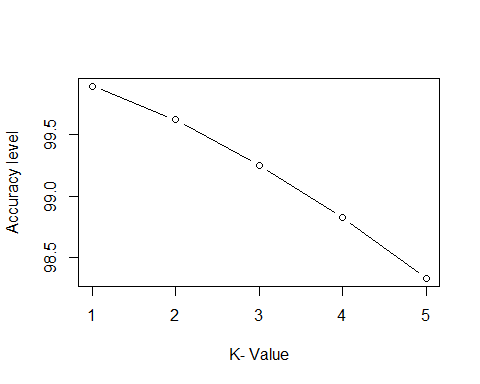
plot(k.optm, type="b", xlab="K- Value",ylab="Accuracy level")



i=1  
k.optm=1  
for (i in 1:5){  
 knn.mod <- knn(train=Data\_train2, test=Data\_test2, cl=Data\_train\_labels2, k=i)  
 k.optm[i] <- 100 \* sum(Data\_test\_labels2 == knn.mod)/NROW(Data\_test\_labels2)  
 k=i  
 cat(k,'=',k.optm[i],'  
')  
}

## 1 = 99.89518   
## 2 = 99.62533   
## 3 = 99.25288   
## 4 = 98.82691   
## 5 = 98.33181

plot(k.optm, type="b", xlab="K- Value",ylab="Accuracy level")



i=1  
k.optm=1  
for (i in 1:5){  
 knn.mod <- knn(train=Data\_train3, test=Data\_test3, cl=Data\_train\_labels3, k=i)  
 k.optm[i] <- 100 \* sum(Data\_test\_labels3 == knn.mod)/NROW(Data\_test\_labels3)  
 k=i  
 cat(k,'=',k.optm[i],'  
')  
}

## 1 = 100   
## 2 = 99.72129   
## 3 = 99.58194   
## 4 = 99.3311   
## 5 = 99.02453

plot(k.optm, type="b", xlab="K- Value",ylab="Accuracy level")

