ChurnLogisticRegression.R

SHIVANSHI

2019-11-14

##Multivariate Project  
##TELECOM-CHURN-ANALYSIS  
##Author : Sanket Gohel

##Importing Libraries

library(ggplot2)

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

library(dplyr)

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

##   
## Attaching package: 'dplyr'

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

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

library (stringr)

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

library(data.table)

## Warning: package 'data.table' was built under R version 3.5.3

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

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

library(grid)  
library(gridExtra)

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

##   
## Attaching package: 'gridExtra'

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

library(corrplot)

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

## corrplot 0.84 loaded

library(scales)

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

library(qqplotr)

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

##   
## Attaching package: 'qqplotr'

## The following objects are masked from 'package:ggplot2':  
##   
## stat\_qq\_line, StatQqLine

library(MASS)

##   
## Attaching package: 'MASS'

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

library(DMwR)

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

## Loading required package: lattice

library(car)

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

## Loading required package: carData

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

##   
## Attaching package: 'car'

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

library(e1071)

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

library(caret)

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

library(caTools)

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

library(pROC)

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

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

##   
## Attaching package: 'pROC'

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

library(tidyverse)

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

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

## v tibble 2.1.3 v readr 1.3.1  
## v tidyr 1.0.0 v purrr 0.3.3  
## v tibble 2.1.3 v forcats 0.4.0

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

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

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

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

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

## -- Conflicts ------------------------------------------------------- tidyverse\_conflicts() --  
## x data.table::between() masks dplyr::between()  
## x readr::col\_factor() masks scales::col\_factor()  
## x gridExtra::combine() masks dplyr::combine()  
## x purrr::discard() masks scales::discard()  
## x dplyr::filter() masks stats::filter()  
## x data.table::first() masks dplyr::first()  
## x dplyr::lag() masks stats::lag()  
## x data.table::last() masks dplyr::last()  
## x purrr::lift() masks caret::lift()  
## x car::recode() masks dplyr::recode()  
## x MASS::select() masks dplyr::select()  
## x purrr::some() masks car::some()  
## x qqplotr::stat\_qq\_line() masks ggplot2::stat\_qq\_line()  
## x purrr::transpose() masks data.table::transpose()

library(MVA)

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

## Loading required package: HSAUR2

## Warning: package 'HSAUR2' was built under R version 3.5.3

## Loading required package: tools

library(GGally)

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

##   
## Attaching package: 'GGally'

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

library(gvlma)

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

library(psych)

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

##   
## Attaching package: 'psych'

## The following object is masked from 'package:car':  
##   
## logit

## The following objects are masked from 'package:scales':  
##   
## alpha, rescale

## The following objects are masked from 'package:ggplot2':  
##   
## %+%, alpha

library(cowplot)

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

##   
## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## Note: As of version 1.0.0, cowplot does not change the

## default ggplot2 theme anymore. To recover the previous

## behavior, execute:  
## theme\_set(theme\_cowplot())

## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

library(regclass)

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

## Loading required package: bestglm

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

## Loading required package: leaps

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

## Loading required package: VGAM

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

## Loading required package: stats4

## Loading required package: splines

##   
## Attaching package: 'VGAM'

## The following objects are masked from 'package:psych':  
##   
## fisherz, logistic, logit

## The following object is masked from 'package:tidyr':  
##   
## fill

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

## The following object is masked from 'package:car':  
##   
## logit

## Loading required package: rpart

## Loading required package: randomForest

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

## randomForest 4.6-14

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

##   
## Attaching package: 'randomForest'

## The following object is masked from 'package:psych':  
##   
## outlier

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

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

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

## Important regclass change from 1.3:  
## All functions that had a . in the name now have an \_  
## all.correlations -> all\_correlations, cor.demo -> cor\_demo, etc.

##   
## Attaching package: 'regclass'

## The following object is masked from 'package:lattice':  
##   
## qq

library(stats)  
library(e1071)  
library(pROC)

##Importing Dataset and doing preliminary analysis

#Importing CSV file from drive on my local computer and viewing it   
  
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn Analysis Data.csv")  
tablechurn <- as.data.frame(tablechurn)  
  
  
#Gaining more insight about the kind of data stored in each column  
  
summary(tablechurn)

## CustomerID Gender SeniorCitizen Partner Dependents  
## 0002-ORFBO: 1 Female:3488 Min. :0.0000 No :3641 No :4933   
## 0003-MKNFE: 1 Male :3555 1st Qu.:0.0000 Yes:3402 Yes:2110   
## 0004-TLHLJ: 1 Median :0.0000   
## 0011-IGKFF: 1 Mean :0.1621   
## 0013-EXCHZ: 1 3rd Qu.:0.0000   
## 0013-MHZWF: 1 Max. :1.0000   
## (Other) :7037   
## Tenure PhoneService MultipleLines InternetService  
## Min. : 0.00 No : 682 No :3390 DSL :2421   
## 1st Qu.: 9.00 Yes:6361 No phone service: 682 Fiber optic:3096   
## Median :29.00 Yes :2971 No :1526   
## Mean :32.37   
## 3rd Qu.:55.00   
## Max. :72.00   
##   
## OnlineSecurity OnlineBackup   
## No :3498 No :3088   
## No internet service:1526 No internet service:1526   
## Yes :2019 Yes :2429   
##   
##   
##   
##   
## DeviceProtection TechSupport   
## No :3095 No :3473   
## No internet service:1526 No internet service:1526   
## Yes :2422 Yes :2044   
##   
##   
##   
##   
## StreamingTV StreamingMovies Contract   
## No :2810 No :2785 Month-to-month:3875   
## No internet service:1526 No internet service:1526 One year :1473   
## Yes :2707 Yes :2732 Two year :1695   
##   
##   
##   
##   
## PaperlessBilling PaymentMethod MonthlyCharges   
## No :2872 Bank transfer (automatic):1544 Min. : 18.25   
## Yes:4171 Credit card (automatic) :1522 1st Qu.: 35.50   
## Electronic check :2365 Median : 70.35   
## Mailed check :1612 Mean : 64.76   
## 3rd Qu.: 89.85   
## Max. :118.75   
##   
## TotalCharges Churn   
## Min. : 18.8 No :5174   
## 1st Qu.: 401.4 Yes:1869   
## Median :1397.5   
## Mean :2283.3   
## 3rd Qu.:3794.7   
## Max. :8684.8   
## NA's :11

glimpse(tablechurn)

## Observations: 7,043  
## Variables: 21  
## $ CustomerID <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOCW, 92...  
## $ Gender <fct> Female, Male, Male, Male, Female, Female, Male, Fe...  
## $ SeniorCitizen <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## $ Partner <fct> Yes, No, No, No, No, No, No, No, Yes, No, Yes, No,...  
## $ Dependents <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes, No,...  
## $ Tenure <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 58, 49...  
## $ PhoneService <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes, Yes...  
## $ MultipleLines <fct> No phone service, No, No, No phone service, No, Ye...  
## $ InternetService <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic, Fibe...  
## $ OnlineSecurity <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, Yes, ...  
## $ OnlineBackup <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, No, No...  
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, No, No...  
## $ TechSupport <fct> No, No, No, Yes, No, No, No, No, Yes, No, No, No i...  
## $ StreamingTV <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No, No ...  
## $ StreamingMovies <fct> No, No, No, No, No, Yes, No, No, Yes, No, No, No i...  
## $ Contract <fct> Month-to-month, One year, Month-to-month, One year...  
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No, Yes,...  
## $ PaymentMethod <fct> Electronic check, Mailed check, Mailed check, Bank...  
## $ MonthlyCharges <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89.10, 2...  
## $ TotalCharges <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820.50, 1...  
## $ Churn <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, No, No...

#The above results give us an insight that TotalCharges and MonthlyCharges are numerical values  
#SeniorCitizen and Tenure are stored as numerical which need to be converted to categorical variables

## Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable   
  
tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0 ,1),labels = c('no','yes'))  
  
#Converting tenure values into ranges of 12 months  
  
tablechurn <- mutate(tablechurn,Tenure\_Range = Tenure)  
cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

## [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [8] 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years 5-6 Years 5-6 Years  
## [15] 2-3 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years  
## [22] 0-1 Years 0-1 Years 5-6 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Years  
## [29] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [36] 6-7 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [43] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years  
## [50] 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Years  
## [57] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Years  
## [64] 1-2 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years 0-1 Years  
## [71] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years  
## [78] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [85] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 2-3 Years 2-3 Years  
## [92] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years  
## [99] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years  
## [106] 0-1 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 5-6 Years 5-6 Years  
## [113] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years  
## [120] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [127] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Years  
## [134] 0-1 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years 5-6 Years 0-1 Years  
## [141] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [148] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [155] 0-1 Years 1-2 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Years  
## [162] 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [169] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years  
## [176] 2-3 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [183] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [190] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Years  
## [197] 1-2 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years  
## [204] 1-2 Years 4-5 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years  
## [211] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Years  
## [218] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [225] 0-1 Years 1-2 Years 2-3 Years 0-1 Years 2-3 Years 4-5 Years 5-6 Years  
## [232] 5-6 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years  
## [239] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years  
## [246] 0-1 Years 4-5 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Years  
## [253] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years  
## [260] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years 4-5 Years 6-7 Years  
## [267] 5-6 Years 1-2 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years  
## [274] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Years  
## [281] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years  
## [288] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years  
## [295] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Years  
## [302] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years 2-3 Years 2-3 Years  
## [309] 4-5 Years 4-5 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years  
## [316] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 5-6 Years 6-7 Years  
## [323] 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
## [330] 1-2 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years  
## [337] 4-5 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years  
## [344] 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years  
## [351] 4-5 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [358] 6-7 Years 2-3 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 4-5 Years  
## [365] 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years  
## [372] 0-1 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years  
## [379] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years  
## [386] 0-1 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years 2-3 Years  
## [393] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 2-3 Years  
## [400] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 6-7 Years  
## [407] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years  
## [414] 5-6 Years 4-5 Years 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years  
## [421] 0-1 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Years  
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## [435] 4-5 Years 2-3 Years 2-3 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years  
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## [456] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [463] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Years  
## [470] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [477] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 1-2 Years  
## [484] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
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## [512] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years 2-3 Years 0-1 Years  
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## [554] 1-2 Years 2-3 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [561] 5-6 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years  
## [568] 6-7 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years  
## [575] 2-3 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years  
## [582] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [589] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years  
## [596] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years  
## [603] 6-7 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Years  
## [610] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years 1-2 Years  
## [617] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [624] 1-2 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Years  
## [631] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Years  
## [638] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years  
## [645] 1-2 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years  
## [652] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [659] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years  
## [666] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
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## [680] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [687] 5-6 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 4-5 Years  
## [694] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years  
## [701] 6-7 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years  
## [708] 2-3 Years 2-3 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Years  
## [715] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 6-7 Years 0-1 Years  
## [722] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years  
## [729] 2-3 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years  
## [736] 2-3 Years 2-3 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Years  
## [743] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years  
## [750] 6-7 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years  
## [757] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years  
## [764] 6-7 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years  
## [771] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years  
## [778] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years  
## [785] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Years  
## [792] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [799] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years  
## [806] 6-7 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Years  
## [813] 4-5 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Years  
## [820] 6-7 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years  
## [827] 0-1 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years  
## [834] 4-5 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years  
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## [855] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years  
## [862] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
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## [904] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years  
## [911] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
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## [953] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years  
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## [967] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years  
## [974] 4-5 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Years  
## [981] 1-2 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years  
## [988] 0-1 Years 2-3 Years 2-3 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years  
## [995] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
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## [1072] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 4-5 Years  
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## [1310] 1-2 Years 2-3 Years 4-5 Years 4-5 Years 4-5 Years 4-5 Years 0-1 Years  
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## [1331] 1-2 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years  
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## [1352] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Years  
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## [1373] 1-2 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years  
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## [1513] 1-2 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Years 0-1 Years  
## [1520] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years  
## [1527] 0-1 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Years  
## [1534] 1-2 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years  
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## [1590] 0-1 Years 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years  
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## [1611] 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years 5-6 Years 5-6 Years  
## [1618] 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years 5-6 Years  
## [1625] 5-6 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years  
## [1632] 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years  
## [1639] 6-7 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 2-3 Years  
## [1646] 4-5 Years 5-6 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years  
## [1653] 1-2 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Years 5-6 Years  
## [1660] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years  
## [1667] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [1674] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [1681] 5-6 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Years  
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## [1695] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 4-5 Years  
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## [1835] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [1842] 5-6 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years  
## [1849] 4-5 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
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## [1891] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 4-5 Years  
## [1898] 2-3 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years  
## [1905] 5-6 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [1912] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years  
## [1919] 1-2 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Years  
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## [1940] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years  
## [1947] 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years  
## [1954] 0-1 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years  
## [1961] 2-3 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years  
## [1968] 6-7 Years 5-6 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years  
## [1975] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years 0-1 Years  
## [1982] 5-6 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years  
## [1989] 5-6 Years 2-3 Years 1-2 Years 4-5 Years 1-2 Years 0-1 Years 1-2 Years  
## [1996] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years  
## [2003] 5-6 Years 5-6 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [2010] 6-7 Years 0-1 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years  
## [2017] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years  
## [2024] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years  
## [2031] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years  
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## [2045] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years  
## [2052] 6-7 Years 4-5 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 1-2 Years  
## [2059] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 2-3 Years  
## [2066] 2-3 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Years  
## [2073] 4-5 Years 1-2 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years  
## [2080] 6-7 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years  
## [2087] 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years 5-6 Years 6-7 Years  
## [2094] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [2101] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [2108] 2-3 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years 2-3 Years 4-5 Years  
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## [2143] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [2150] 4-5 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 2-3 Years  
## [2157] 0-1 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years  
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## [2178] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Years  
## [2185] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years  
## [2192] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years  
## [2199] 1-2 Years 5-6 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years  
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## [2220] 1-2 Years 6-7 Years 6-7 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years  
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## [2255] 6-7 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years  
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## [2269] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years  
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## [2283] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [2290] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [2297] 0-1 Years 5-6 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years  
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## [2318] 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 2-3 Years  
## [2325] 1-2 Years 0-1 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years 2-3 Years  
## [2332] 2-3 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 5-6 Years  
## [2339] 6-7 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years  
## [2346] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years  
## [2353] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 5-6 Years  
## [2360] 2-3 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Years  
## [2367] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years  
## [2374] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years  
## [2381] 5-6 Years 0-1 Years 2-3 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Years  
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## [5545] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [5552] 1-2 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years  
## [5559] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [5566] 1-2 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years 6-7 Years  
## [5573] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years  
## [5580] 6-7 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years  
## [5587] 2-3 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 1-2 Years  
## [5594] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years  
## [5601] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [5608] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 6-7 Years  
## [5615] 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years  
## [5622] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [5629] 1-2 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [5636] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years  
## [5643] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years  
## [5650] 2-3 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [5657] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years  
## [5664] 4-5 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years  
## [5671] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years  
## [5678] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years  
## [5685] 5-6 Years 4-5 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years  
## [5692] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 6-7 Years  
## [5699] 1-2 Years 1-2 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years  
## [5706] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years  
## [5713] 1-2 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years  
## [5720] 1-2 Years 2-3 Years 2-3 Years 2-3 Years 5-6 Years 0-1 Years 1-2 Years  
## [5727] 4-5 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years  
## [5734] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years  
## [5741] 6-7 Years 1-2 Years 6-7 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years  
## [5748] 2-3 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years  
## [5755] 1-2 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years  
## [5762] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 6-7 Years  
## [5769] 4-5 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years  
## [5776] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 5-6 Years 2-3 Years  
## [5783] 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years  
## [5790] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years  
## [5797] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years 4-5 Years  
## [5804] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years  
## [5811] 1-2 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years  
## [5818] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Years 1-2 Years  
## [5825] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years  
## [5832] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [5839] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years 0-1 Years  
## [5846] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years  
## [5853] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years  
## [5860] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years  
## [5867] 0-1 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years  
## [5874] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [5881] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years 4-5 Years  
## [5888] 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years  
## [5895] 4-5 Years 4-5 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years  
## [5902] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years  
## [5909] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years  
## [5916] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 2-3 Years  
## [5923] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years  
## [5930] 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [5937] 4-5 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 2-3 Years 0-1 Years  
## [5944] 0-1 Years 0-1 Years 5-6 Years 4-5 Years 2-3 Years 6-7 Years 6-7 Years  
## [5951] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [5958] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years  
## [5965] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [5972] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [5979] 4-5 Years 5-6 Years 1-2 Years 4-5 Years 1-2 Years 1-2 Years 1-2 Years  
## [5986] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years  
## [5993] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years  
## [6000] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [6007] 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years 0-1 Years  
## [6014] 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years  
## [6021] 2-3 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Years  
## [6028] 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Years  
## [6035] 0-1 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years  
## [6042] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years  
## [6049] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years 2-3 Years  
## [6056] 0-1 Years 5-6 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Years  
## [6063] 5-6 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [6070] 5-6 Years 6-7 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [6077] 6-7 Years 6-7 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years  
## [6084] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [6091] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years  
## [6098] 6-7 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years 1-2 Years  
## [6105] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
## [6112] 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [6119] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 5-6 Years  
## [6126] 1-2 Years 1-2 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Years  
## [6133] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years  
## [6140] 0-1 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years 1-2 Years 6-7 Years  
## [6147] 2-3 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years  
## [6154] 5-6 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years  
## [6161] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years  
## [6168] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [6175] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6182] 6-7 Years 6-7 Years 4-5 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years  
## [6189] 1-2 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 1-2 Years 6-7 Years  
## [6196] 0-1 Years 6-7 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 0-1 Years  
## [6203] 1-2 Years 6-7 Years 1-2 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Years  
## [6210] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years  
## [6217] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years  
## [6224] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years  
## [6231] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 2-3 Years  
## [6238] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [6245] 5-6 Years 5-6 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years  
## [6252] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [6259] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 4-5 Years 2-3 Years 4-5 Years  
## [6266] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Years  
## [6273] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years  
## [6280] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years  
## [6287] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Years  
## [6294] 1-2 Years 0-1 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years  
## [6301] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years  
## [6308] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years  
## [6315] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Years  
## [6322] 2-3 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [6329] 6-7 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years  
## [6336] 1-2 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years  
## [6343] 4-5 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years  
## [6350] 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years  
## [6357] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years  
## [6364] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years  
## [6371] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years  
## [6378] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years  
## [6385] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [6392] 4-5 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years  
## [6399] 6-7 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 5-6 Years  
## [6406] 5-6 Years 4-5 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Years  
## [6413] 6-7 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Years  
## [6420] 6-7 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years  
## [6427] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 2-3 Years  
## [6434] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 2-3 Years  
## [6441] 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years  
## [6448] 5-6 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 4-5 Years  
## [6455] 4-5 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years  
## [6462] 5-6 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years  
## [6469] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years  
## [6476] 1-2 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years  
## [6483] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years  
## [6490] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Years  
## [6497] 4-5 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Years  
## [6504] 6-7 Years 0-1 Years 5-6 Years 1-2 Years 5-6 Years 4-5 Years 0-1 Years  
## [6511] 4-5 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years  
## [6518] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 1-2 Years  
## [6525] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [6532] 2-3 Years 1-2 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years  
## [6539] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years  
## [6546] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years  
## [6553] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 1-2 Years  
## [6560] 5-6 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years  
## [6567] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years  
## [6574] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years  
## [6581] 5-6 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years  
## [6588] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [6595] 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years  
## [6602] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [6609] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [6616] 0-1 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Years  
## [6623] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years  
## [6630] 6-7 Years 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years  
## [6637] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years 2-3 Years  
## [6644] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years  
## [6651] 0-1 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years  
## [6658] 5-6 Years 2-3 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [6665] 2-3 Years 4-5 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years  
## [6672] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Years  
## [6679] 1-2 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [6686] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Years  
## [6693] 4-5 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years  
## [6700] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 5-6 Years 1-2 Years  
## [6707] 0-1 Years 6-7 Years 1-2 Years 5-6 Years 4-5 Years 5-6 Years 2-3 Years  
## [6714] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6721] 6-7 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Years  
## [6728] 1-2 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years  
## [6735] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 4-5 Years  
## [6742] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years  
## [6749] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years  
## [6756] 4-5 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years  
## [6763] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years 6-7 Years  
## [6770] 4-5 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 5-6 Years  
## [6777] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years  
## [6784] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Years  
## [6791] 6-7 Years 1-2 Years 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years  
## [6798] 2-3 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 4-5 Years  
## [6805] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years  
## [6812] 0-1 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years  
## [6819] 0-1 Years 5-6 Years 5-6 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years  
## [6826] 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6833] 5-6 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years  
## [6840] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years  
## [6847] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 4-5 Years  
## [6854] 5-6 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years 2-3 Years 6-7 Years  
## [6861] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years  
## [6868] 6-7 Years 1-2 Years 4-5 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Years  
## [6875] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years  
## [6882] 2-3 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [6889] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [6896] 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 2-3 Years  
## [6903] 5-6 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years 4-5 Years 0-1 Years  
## [6910] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [6917] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years  
## [6924] 5-6 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years  
## [6931] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years  
## [6938] 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years  
## [6945] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years  
## [6952] 5-6 Years 4-5 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [6959] 1-2 Years 4-5 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years  
## [6966] 6-7 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years 6-7 Years  
## [6980] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 4-5 Years  
## [6987] 2-3 Years 2-3 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years  
## [6994] 5-6 Years 4-5 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Years  
## [7001] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years  
## [7008] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years  
## [7022] 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 1-2 Years  
## [7029] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Years  
## [7036] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [7043] 6-7 Years  
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

tablechurn$Tenure\_Range <- cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))  
  
#Checking if there are any NULL values in any of the columns   
table(is.na(tablechurn))

##   
## FALSE TRUE   
## 154935 11

str\_detect(tablechurn,'NA')

## Warning in stri\_detect\_regex(string, pattern, negate = negate, opts\_regex =  
## opts(pattern)): argument is not an atomic vector; coercing

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE

setDT(tablechurn)  
tablechurn[is.na(TotalCharges),NROW(TotalCharges)]

## [1] 11

#There are 11 rows out of 7043 rows that have null values.Hence removing these rows since they are only 0.15% of total so we can afford to drop them  
  
tablechurn <- tablechurn[complete.cases(tablechurn), ]  
  
#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup DeviceProtection,TechSupport,StreamingTV and StreamingMovies columns with 'No'  
  
tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service'] <- 'No'  
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <- 'No'  
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet service'] <- 'No'  
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'  
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'  
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service'] <- 'No'  
  
#Deleting the unused levels from the factor variables  
  
tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)  
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)  
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)  
tablechurn$TechSupport <- factor(tablechurn$TechSupport)  
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)  
tablechurn$StreamingMovies <- factor(tablechurn$StreamingMovies)

##Checking relationships between our dependent variable and each of our independent categorical variable.  
  
xtabs(~Churn+Gender,data=tablechurn)

## Gender  
## Churn Female Male  
## No 2544 2619  
## Yes 939 930

xtabs(~Churn+SeniorCitizen,data=tablechurn)

## SeniorCitizen  
## Churn no yes  
## No 4497 666  
## Yes 1393 476

xtabs(~Churn+Partner,data=tablechurn)

## Partner  
## Churn No Yes  
## No 2439 2724  
## Yes 1200 669

xtabs(~Churn+Dependents,data=tablechurn)

## Dependents  
## Churn No Yes  
## No 3390 1773  
## Yes 1543 326

xtabs(~Churn+Tenure\_Range,data=tablechurn)

## Tenure\_Range  
## Churn 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years  
## No 1138 730 652 617 712 1314  
## Yes 1037 294 180 145 120 93

xtabs(~Churn+PhoneService,data=tablechurn)

## PhoneService  
## Churn No Yes  
## No 510 4653  
## Yes 170 1699

xtabs(~Churn+MultipleLines,data=tablechurn)

## MultipleLines  
## Churn No No phone service Yes  
## No 2536 510 2117  
## Yes 849 170 850

xtabs(~Churn+InternetService,data=tablechurn)

## InternetService  
## Churn DSL Fiber optic No  
## No 1957 1799 1407  
## Yes 459 1297 113

xtabs(~Churn+OnlineBackup,data=tablechurn)

## OnlineBackup  
## Churn No Yes  
## No 3261 1902  
## Yes 1346 523

xtabs(~Churn+OnlineSecurity,data=tablechurn)

## OnlineSecurity  
## Churn No Yes  
## No 3443 1720  
## Yes 1574 295

xtabs(~Churn+DeviceProtection,data=tablechurn)

## DeviceProtection  
## Churn No Yes  
## No 3290 1873  
## Yes 1324 545

xtabs(~Churn+TechSupport,data=tablechurn)

## TechSupport  
## Churn No Yes  
## No 3433 1730  
## Yes 1559 310

xtabs(~Churn+StreamingTV,data=tablechurn)

## StreamingTV  
## Churn No Yes  
## No 3274 1889  
## Yes 1055 814

xtabs(~Churn+StreamingMovies,data=tablechurn)

## StreamingMovies  
## Churn No Yes  
## No 3250 1913  
## Yes 1051 818

xtabs(~Churn+Contract,data=tablechurn)

## Contract  
## Churn Month-to-month One year Two year  
## No 2220 1306 1637  
## Yes 1655 166 48

xtabs(~Churn+PaperlessBilling,data=tablechurn)

## PaperlessBilling  
## Churn No Yes  
## No 2395 2768  
## Yes 469 1400

xtabs(~Churn+PaymentMethod,data=tablechurn)

## PaymentMethod  
## Churn Bank transfer (automatic) Credit card (automatic) Electronic check  
## No 1284 1289 1294  
## Yes 258 232 1071  
## PaymentMethod  
## Churn Mailed check  
## No 1296  
## Yes 308

##By above results, we find that independent variables like Senior Citizen ,Partner, Dependents,Tenure Range,Phone Service,Internet Service,OnlineBackup,OnlineSecurity,DeviceProtection,TechSupport,StreamingTV(need to check),StreamingMovies(need to check),Contract,PaperLess Billing,Payment Method variables can  
##have impact on depedent variable (Churn).  
##Although we see that the variables like StreamingTV and StreamingMovies don't show significant difference  
##indicating if person will churn or not based on this factor.   
##So lets run 2 model.One simple model excluding StreamingTV and StreamingMoviesand other  
##inlcuding all variables mentioned above.  
  
  
logistic\_simple <- glm(Churn~SeniorCitizen+Partner+Dependents+Tenure\_Range+  
 PhoneService+InternetService+OnlineBackup+OnlineSecurity+  
 DeviceProtection+TechSupport+Contract+  
 PaperlessBilling+PaymentMethod, data=tablechurn, family="binomial")  
summary(logistic\_simple)

##   
## Call:  
## glm(formula = Churn ~ SeniorCitizen + Partner + Dependents +   
## Tenure\_Range + PhoneService + InternetService + OnlineBackup +   
## OnlineSecurity + DeviceProtection + TechSupport + Contract +   
## PaperlessBilling + PaymentMethod, family = "binomial", data = tablechurn)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -1.8299 -0.6813 -0.2962 0.7144 3.0380   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -0.18898 0.14636 -1.291 0.196623   
## SeniorCitizenyes 0.23893 0.08391 2.847 0.004410 \*\*   
## PartnerYes -0.01211 0.07720 -0.157 0.875307   
## DependentsYes -0.14288 0.08924 -1.601 0.109351   
## Tenure\_Range1-2 Years -0.82050 0.09518 -8.621 < 2e-16 \*\*\*  
## Tenure\_Range2-3 Years -1.15770 0.11255 -10.286 < 2e-16 \*\*\*  
## Tenure\_Range4-5 Years -1.07778 0.12593 -8.559 < 2e-16 \*\*\*  
## Tenure\_Range5-6 Years -1.29415 0.13682 -9.459 < 2e-16 \*\*\*  
## Tenure\_Range6-7 Years -1.50332 0.16432 -9.149 < 2e-16 \*\*\*  
## PhoneServiceYes -0.43054 0.12379 -3.478 0.000505 \*\*\*  
## InternetServiceFiber optic 1.04119 0.09013 11.552 < 2e-16 \*\*\*  
## InternetServiceNo -0.93730 0.13656 -6.864 6.71e-12 \*\*\*  
## OnlineBackupYes -0.15218 0.07579 -2.008 0.044647 \*   
## OnlineSecurityYes -0.40059 0.08386 -4.777 1.78e-06 \*\*\*  
## DeviceProtectionYes 0.06687 0.07671 0.872 0.383348   
## TechSupportYes -0.28669 0.08438 -3.397 0.000680 \*\*\*  
## ContractOne year -0.73328 0.10626 -6.901 5.17e-12 \*\*\*  
## ContractTwo year -1.61097 0.18056 -8.922 < 2e-16 \*\*\*  
## PaperlessBillingYes 0.37588 0.07394 5.084 3.70e-07 \*\*\*  
## PaymentMethodCredit card (automatic) -0.08137 0.11301 -0.720 0.471521   
## PaymentMethodElectronic check 0.36328 0.09358 3.882 0.000104 \*\*\*  
## PaymentMethodMailed check -0.02452 0.11367 -0.216 0.829239   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 8143.4 on 7031 degrees of freedom  
## Residual deviance: 5896.7 on 7010 degrees of freedom  
## AIC: 5940.7  
##   
## Number of Fisher Scoring iterations: 6

logistic <- glm(Churn~SeniorCitizen+Partner+Dependents+Tenure\_Range+  
 PhoneService+InternetService+OnlineBackup+OnlineSecurity+  
 DeviceProtection+TechSupport+StreamingTV+StreamingMovies+Contract+  
 PaperlessBilling+PaymentMethod,data=tablechurn, family="binomial")  
summary(logistic)

##   
## Call:  
## glm(formula = Churn ~ SeniorCitizen + Partner + Dependents +   
## Tenure\_Range + PhoneService + InternetService + OnlineBackup +   
## OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +   
## StreamingMovies + Contract + PaperlessBilling + PaymentMethod,   
## family = "binomial", data = tablechurn)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -1.9509 -0.6761 -0.2862 0.6852 3.1013   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -0.268442 0.147838 -1.816 0.069404 .   
## SeniorCitizenyes 0.233841 0.084121 2.780 0.005439 \*\*   
## PartnerYes -0.021832 0.077456 -0.282 0.778053   
## DependentsYes -0.135752 0.089529 -1.516 0.129446   
## Tenure\_Range1-2 Years -0.868833 0.096153 -9.036 < 2e-16 \*\*\*  
## Tenure\_Range2-3 Years -1.229227 0.114174 -10.766 < 2e-16 \*\*\*  
## Tenure\_Range4-5 Years -1.161742 0.127917 -9.082 < 2e-16 \*\*\*  
## Tenure\_Range5-6 Years -1.409129 0.139231 -10.121 < 2e-16 \*\*\*  
## Tenure\_Range6-7 Years -1.629799 0.166836 -9.769 < 2e-16 \*\*\*  
## PhoneServiceYes -0.392387 0.124612 -3.149 0.001639 \*\*   
## InternetServiceFiber optic 0.953028 0.091513 10.414 < 2e-16 \*\*\*  
## InternetServiceNo -0.851492 0.137644 -6.186 6.16e-10 \*\*\*  
## OnlineBackupYes -0.157162 0.076153 -2.064 0.039040 \*   
## OnlineSecurityYes -0.384573 0.084121 -4.572 4.84e-06 \*\*\*  
## DeviceProtectionYes -0.020375 0.078462 -0.260 0.795107   
## TechSupportYes -0.334370 0.085226 -3.923 8.73e-05 \*\*\*  
## StreamingTVYes 0.271152 0.079621 3.406 0.000660 \*\*\*  
## StreamingMoviesYes 0.282140 0.079520 3.548 0.000388 \*\*\*  
## ContractOne year -0.793518 0.107181 -7.404 1.33e-13 \*\*\*  
## ContractTwo year -1.673931 0.181449 -9.225 < 2e-16 \*\*\*  
## PaperlessBillingYes 0.336435 0.074525 4.514 6.35e-06 \*\*\*  
## PaymentMethodCredit card (automatic) -0.075260 0.113446 -0.663 0.507076   
## PaymentMethodElectronic check 0.325815 0.094142 3.461 0.000538 \*\*\*  
## PaymentMethodMailed check -0.004958 0.114123 -0.043 0.965346   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 8143.4 on 7031 degrees of freedom  
## Residual deviance: 5861.7 on 7008 degrees of freedom  
## AIC: 5909.7  
##   
## Number of Fisher Scoring iterations: 6

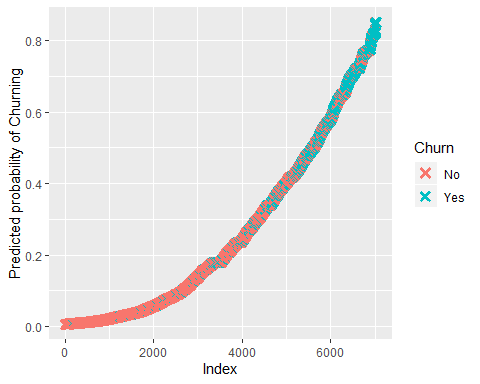
ll.null <- logistic$null.deviance/-2  
ll.proposed <- logistic$deviance/-2  
  
  
## McFadden's Pseudo R^2 = [ LL(Null) - LL(Proposed) ] / LL(Null)  
(ll.null - ll.proposed) / ll.null

## [1] 0.2801921

## The p-value forthe R^2  
  
  
1 - pchisq(2\*(ll.proposed - ll.null), df=(length(logistic$coefficients)-1))

## [1] 0

## now we can plot the data  
predicted.data <- data.frame(probability.of.Churn=logistic$fitted.values,Churn=tablechurn$Churn)  
predicted.data <- predicted.data[order(predicted.data$probability.of.Churn, decreasing=FALSE),]  
predicted.data$rank <- 1:nrow(predicted.data)  
## Lastly, we can plot the predicted probabilities for each sample having  
## Churning and color by whether or not they actually churned   
ggplot(data=predicted.data,aes(x=rank, y=probability.of.Churn)) +  
 geom\_point(aes(color=Churn), alpha=1, shape=4, stroke=2) +  
 xlab("Index") +  
 ylab("Predicted probability of Churning")



confusion\_matrix(logistic)

## Predicted No Predicted Yes Total  
## Actual No 4674 489 5163  
## Actual Yes 918 951 1869  
## Total 5592 1440 7032

pdata <- predict(logistic,newdata=tablechurn,type="response" )  
pdata

## 1 2 3 4 5 6   
## 0.553497794 0.043376954 0.295027981 0.049124690 0.722008967 0.815682448   
## 7 8 9 10 11 12   
## 0.416484804 0.341194960 0.475503626 0.022717650 0.149269528 0.015822944   
## 13 14 15 16 17 18   
## 0.186241020 0.400173835 0.386794679 0.026920875 0.023662277 0.047473793   
## 19 20 21 22 23 24   
## 0.222974171 0.547411701 0.708768883 0.088857054 0.179862493 0.018055612   
## 25 26 27 28 29 30   
## 0.039967253 0.109548904 0.507812444 0.436009494 0.016817002 0.314180824   
## 31 32 33 34 35 36   
## 0.031224572 0.785548733 0.023144148 0.180595038 0.394845744 0.022443213   
## 37 38 39 40 41 42   
## 0.722008967 0.347795610 0.525222426 0.761614322 0.145039270 0.015804168   
## 43 44 45 46 47 48   
## 0.034316376 0.013012935 0.183292542 0.456971544 0.305137956 0.773047652   
## 49 50 51 52 53 54   
## 0.025373079 0.009948981 0.535076513 0.424603870 0.134160401 0.647534969   
## 55 56 57 58 59 60   
## 0.041471806 0.705317280 0.134842089 0.205669826 0.009486788 0.072305018   
## 61 62 63 64 65 66   
## 0.575369082 0.339279813 0.015426608 0.070808650 0.763380923 0.515789648   
## 67 68 69 70 71 72   
## 0.235087202 0.028538104 0.008552307 0.554464869 0.268910506 0.038779854   
## 73 74 75 76 77 78   
## 0.058147488 0.009591880 0.289677669 0.204303418 0.082473145 0.203411657   
## 79 80 81 82 83 84   
## 0.272413812 0.033440020 0.748353201 0.517120098 0.642544981 0.379487482   
## 85 86 87 88 89 90   
## 0.013643181 0.721015380 0.077101784 0.010926492 0.015155777 0.222128168   
## 91 92 93 94 95 96   
## 0.218889575 0.626559367 0.018402530 0.252515003 0.091177479 0.638734419   
## 97 98 99 100 101 102   
## 0.020700898 0.179862493 0.009997409 0.577613603 0.179862493 0.206838225   
## 103 104 105 106 107 108   
## 0.148469667 0.084236067 0.065648154 0.432072523 0.165910022 0.064120714   
## 109 110 111 112 113 114   
## 0.246990607 0.006375514 0.321454506 0.024649158 0.471610788 0.501178933   
## 115 116 117 118 119 120   
## 0.047166906 0.547319634 0.027755477 0.724238306 0.012705256 0.209992783   
## 121 122 123 124 125 126   
## 0.218583552 0.179862493 0.722008967 0.230065042 0.157776895 0.083439860   
## 127 128 129 130 131 132   
## 0.484676491 0.010971219 0.179862493 0.143796020 0.590916605 0.197356766   
## 133 134 135 136 137 138   
## 0.013401068 0.662833492 0.417021058 0.016515222 0.348696967 0.006836679   
## 139 140 141 142 143 144   
## 0.012132545 0.697555686 0.018518077 0.316085940 0.091056883 0.082286516   
## 145 146 147 148 149 150   
## 0.009912055 0.028947602 0.090232659 0.500355103 0.057271687 0.170012810   
## 151 152 153 154 155 156   
## 0.515684424 0.698577427 0.115439408 0.015680735 0.157776895 0.471121598   
## 157 158 159 160 161 162   
## 0.507737750 0.034316376 0.029314187 0.039686353 0.175824117 0.341363603   
## 163 164 165 166 167 168   
## 0.722008967 0.025650112 0.078104727 0.007822941 0.652179685 0.018107685   
## 169 170 171 172 173 174   
## 0.332098196 0.098596006 0.110290575 0.756053526 0.039581832 0.256750274   
## 175 176 177 178 179 180   
## 0.028330778 0.080352627 0.497171064 0.535307820 0.494493231 0.024214421   
## 181 182 183 184 185 186   
## 0.395176444 0.339440826 0.639763787 0.059073944 0.477035813 0.591936289   
## 187 188 189 190 191 192   
## 0.204997556 0.431189978 0.054740415 0.111369844 0.049769538 0.738313118   
## 193 194 195 196 197 198   
## 0.006870427 0.037212313 0.007937208 0.367915637 0.020307789 0.398121964   
## 199 200 201 202 203 204   
## 0.057796358 0.160699660 0.160184714 0.308532165 0.063271606 0.455106662   
## 205 206 207 208 209 210   
## 0.279931288 0.131741964 0.016578648 0.710981078 0.474918315 0.135827112   
## 211 212 213 214 215 216   
## 0.401395511 0.514339179 0.006986521 0.033348164 0.560534187 0.202331254   
## 217 218 219 220 221 222   
## 0.008999941 0.020175626 0.023105139 0.710905528 0.722008967 0.007861519   
## 223 224 225 226 227 228   
## 0.141708268 0.264640196 0.122452855 0.193005550 0.063227063 0.397362553   
## 229 230 231 232 233 234   
## 0.325615462 0.023759534 0.054552232 0.190044568 0.627438226 0.007455565   
## 235 236 237 238 239 240   
## 0.081980742 0.380714986 0.125070360 0.515940755 0.829829414 0.016955814   
## 241 242 243 244 245 246   
## 0.019394606 0.048792908 0.064275081 0.253553937 0.307654226 0.614740083   
## 247 248 249 250 251 252   
## 0.086330740 0.540484826 0.328731998 0.217417016 0.173504795 0.613116266   
## 253 254 255 256 257 258   
## 0.594685961 0.054516027 0.234900363 0.046259598 0.026920875 0.088757847   
## 259 260 261 262 263 264   
## 0.396161373 0.321645532 0.708768883 0.667125118 0.470610500 0.031397315   
## 265 266 267 268 269 270   
## 0.115777347 0.011314512 0.009997409 0.417236072 0.009948455 0.010183934   
## 271 272 273 274 275 276   
## 0.631435093 0.018350505 0.433289586 0.505737195 0.571320603 0.608517475   
## 277 278 279 280 281 282   
## 0.474831847 0.224294431 0.431317160 0.306190237 0.230139680 0.379380948   
## 283 284 285 286 287 288   
## 0.160699660 0.064154321 0.448617386 0.248061810 0.295793067 0.644782422   
## 289 290 291 292 293 294   
## 0.737134358 0.401395511 0.579191880 0.037303775 0.114599085 0.850887776   
## 295 296 297 298 299 300   
## 0.179862493 0.179862493 0.053978728 0.615418520 0.313245638 0.525814671   
## 301 302 303 304 305 306   
## 0.192561208 0.850887776 0.707203978 0.022673331 0.303437784 0.008510368   
## 307 308 309 310 311 312   
## 0.484312789 0.028526426 0.482172130 0.087677907 0.235792621 0.413094453   
## 313 314 315 316 317 318   
## 0.049176003 0.762504168 0.773047652 0.078268762 0.010406370 0.040242903   
## 319 320 321 322 323 324   
## 0.696469452 0.318450320 0.049620871 0.046259598 0.500355103 0.119049501   
## 325 326 327 328 329 330   
## 0.027691393 0.306650214 0.750866625 0.766434988 0.380362215 0.474523909   
## 331 332 333 334 335 336   
## 0.014180760 0.121921060 0.212776238 0.722008967 0.566323330 0.041683904   
## 337 338 339 340 341 342   
## 0.181611002 0.025444073 0.430521556 0.420327893 0.104541850 0.012070587   
## 343 344 345 346 347 348   
## 0.064531897 0.019066043 0.034152886 0.766434988 0.818726082 0.007861519   
## 349 350 351 352 353 354   
## 0.519556589 0.099833184 0.015793618 0.078428732 0.850887776 0.572855944   
## 355 356 357 358 359 360   
## 0.412265916 0.713158484 0.265388938 0.090351249 0.148616530 0.209803284   
## 361 362 363 364 365 366   
## 0.160699660 0.104773096 0.048294291 0.017696766 0.360183311 0.695321176   
## 367 368 369 370 371 372   
## 0.211235885 0.179862493 0.204426040 0.037286352 0.024183396 0.773047652   
## 373 374 375 376 377 378   
## 0.024822725 0.115410919 0.447138693 0.065991170 0.432072523 0.395589009   
## 379 380 381 382 383 384   
## 0.018308101 0.197961799 0.134660469 0.305137956 0.029236363 0.663370759   
## 385 386 387 388 389 390   
## 0.138085227 0.213279389 0.396466815 0.101945318 0.431360676 0.384434860   
## 391 392 393 394 395 396   
## 0.488176801 0.214126573 0.558545499 0.084237880 0.635991358 0.017181802   
## 397 398 399 400 401 402   
## 0.360173494 0.303007907 0.400583781 0.034316376 0.028330778 0.084625395   
## 403 404 405 406 407 408   
## 0.331570260 0.021354212 0.023577362 0.010406370 0.134075659 0.466757888   
## 409 410 411 412 413 414   
## 0.234900363 0.234900363 0.737134358 0.040974087 0.426386366 0.275561098   
## 415 416 417 418 419 420   
## 0.420407972 0.290825323 0.050849576 0.015155777 0.429614356 0.698907214   
## 421 422 423 424 425 426   
## 0.207768657 0.652179685 0.102355154 0.025828138 0.303528146 0.134942321   
## 427 428 429 430 431 432   
## 0.271653462 0.677557605 0.440237448 0.021354212 0.048882090 0.021630773   
## 433 434 435 436 437 438   
## 0.323012241 0.419605226 0.023949266 0.210803661 0.027735945 0.037286352   
## 439 440 441 442 443 444   
## 0.337455245 0.264923680 0.435856744 0.312248056 0.125209941 0.191230790   
## 445 446 447 448 449 450   
## 0.413162929 0.480278673 0.571320603 0.011931967 0.790804481 0.029542766   
## 451 452 453 454 455 456   
## 0.019066043 0.194422898 0.210554873 0.462514838 0.007822941 0.613339178   
## 457 458 459 460 461 462   
## 0.106320843 0.024597934 0.176664561 0.722008967 0.160699660 0.305991075   
## 463 464 465 466 467 468   
## 0.729748449 0.794224118 0.056985962 0.035814666 0.093201134 0.180574202   
## 469 470 471 472 473 474   
## 0.011110358 0.253640256 0.049935898 0.570418818 0.545308493 0.093181372   
## 475 476 477 478 479 480   
## 0.654686287 0.482121097 0.251657709 0.313998346 0.763753647 0.329071998   
## 481 482 483 484 485 486   
## 0.033934669 0.224716358 0.646021493 0.144905479 0.713175043 0.067496353   
## 487 488 489 490 491 492   
## 0.618159968 0.026942443 0.693959601 0.078933574 0.528820533 0.633681634   
## 493 494 495 496 497 498   
## 0.060247293 0.179862493 0.183958372 0.057706243 0.007861519 0.533462630   
## 499 500 501 502 503 504   
## 0.586293304 0.104425158 0.051032118 0.034086826 0.157440419 0.011379859   
## 505 506 507 508 509 510   
## 0.604454125 0.614803379 0.759791845 0.613605880 0.179862493 0.138675710   
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## [3835] Yes No Yes Yes Yes No No No Yes No No No No No No No No No   
## [3853] No No No No No Yes No No No Yes No No Yes No No No Yes No   
## [3871] Yes No Yes No No No No No No No Yes Yes No Yes No No No No   
## [3889] No No No No No No No No No No Yes Yes No No No Yes Yes No   
## [3907] No No No No Yes Yes Yes No No No Yes Yes No No Yes No No No   
## [3925] No Yes No No No No No No Yes No No Yes No No Yes Yes No No   
## [3943] No Yes No No Yes No No Yes No Yes No No No Yes No No No No   
## [3961] No No No No Yes No No No Yes Yes No No No Yes No No Yes No   
## [3979] No No Yes No No No Yes No No Yes Yes No No No Yes No No No   
## [3997] No No Yes No No No No No No Yes No No No No No No Yes No   
## [4015] Yes No No No Yes No Yes No No No No No No No No No No No   
## [4033] No No No No No No Yes No No No No No No Yes No No No Yes  
## [4051] No Yes Yes No No Yes Yes No Yes No No No No No No No Yes Yes  
## [4069] No No No Yes No No Yes Yes Yes Yes No No No Yes Yes No No No   
## [4087] No No No No No Yes No No No No No No No Yes No No Yes No   
## [4105] No No No No No No No No No No Yes No No No No No No Yes  
## [4123] No No Yes Yes No No No No No Yes No Yes No No Yes No No Yes  
## [4141] No No Yes No No No No Yes No No No No No No No No No No   
## [4159] No No No No Yes No Yes No No Yes No No No No No Yes No Yes  
## [4177] No Yes No No No Yes No Yes No No No No No No No No Yes No   
## [4195] No No No No No No No No No No Yes Yes Yes Yes No No No No   
## [4213] No No No No No No No Yes No Yes No Yes No Yes No No No No   
## [4231] Yes No No Yes Yes No No No No No No No No No No No No Yes  
## [4249] Yes No No Yes Yes No No Yes No No Yes Yes No No Yes No No Yes  
## [4267] Yes No No Yes No No No No No No No No No No Yes Yes No Yes  
## [4285] No Yes Yes No No Yes No No No No No No No No No No Yes No   
## [4303] No No Yes No No Yes Yes No No No No No No No Yes No No Yes  
## [4321] No No Yes Yes No No No No No No No No No No Yes No Yes No   
## [4339] No No No Yes Yes No No No Yes No No No No No No No No No   
## [4357] No No No No No Yes Yes No No No No No No No No No No Yes  
## [4375] No No Yes No Yes No No No No No No Yes No Yes Yes No No No   
## [4393] No No Yes No No Yes No No No No No No No Yes No No No Yes  
## [4411] Yes No No No No No Yes No No No Yes No No No No No No No   
## [4429] No No No No No No Yes No Yes No Yes No Yes No Yes No No Yes  
## [4447] No Yes No No Yes Yes No No Yes Yes Yes No Yes No Yes No No Yes  
## [4465] No No No No Yes No No No Yes No Yes No No No No No Yes No   
## [4483] No No No No No Yes No No No Yes No No Yes Yes No No No No   
## [4501] No Yes No No No Yes No No No Yes Yes No Yes No No No Yes No   
## [4519] No Yes No No No Yes Yes No No Yes Yes No Yes Yes No Yes No No   
## [4537] Yes No Yes No Yes No No No No No No No Yes No Yes No No No   
## [4555] No Yes Yes No No No No Yes No No No No No No No No No No   
## [4573] No No No No No Yes No No No No No No No No Yes No No Yes  
## [4591] No No No No No No No No No No No No Yes No No Yes No No   
## [4609] No No No Yes No No No No Yes No No No No No No Yes Yes No   
## [4627] No No No No Yes No Yes No Yes No No Yes No No No No No Yes  
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## [4663] No Yes No Yes No Yes No Yes Yes No No Yes Yes No Yes No No Yes  
## [4681] No No No Yes No No No No No No Yes No No No No Yes No No   
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## [4717] No Yes No No No No No No No No Yes No No No Yes No Yes No   
## [4735] No No No No Yes No No Yes No Yes No Yes No No No Yes No Yes  
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## [4771] No No No No No No No Yes No No No Yes No No Yes No No Yes  
## [4789] No No No No Yes No No No No No No No No No Yes Yes Yes No   
## [4807] Yes Yes No No No Yes No No No Yes No No Yes Yes No No No No   
## [4825] No No No No No Yes No Yes No No Yes No No No No Yes Yes No   
## [4843] No Yes No No No No Yes No No No No No Yes No No No No No   
## [4861] Yes No No No No No Yes Yes Yes No No No No No No Yes No No   
## [4879] No No No No No No No Yes No No No No Yes Yes Yes Yes No Yes  
## [4897] No No No No Yes No Yes No Yes No No No No No No No No No   
## [4915] No No Yes No No No Yes No No No No No No No No No Yes No   
## [4933] No Yes Yes No No No Yes Yes No Yes Yes No No No Yes Yes Yes No   
## [4951] No Yes Yes No No No Yes Yes No Yes No No No No No No Yes No   
## [4969] No No Yes No No Yes Yes Yes No No No No No No No Yes No No   
## [4987] Yes Yes No Yes No No No Yes No Yes No Yes Yes No No No No No   
## [5005] No No No No Yes No No No No No No Yes No No No Yes No No   
## [5023] Yes No No No No No Yes Yes No Yes No No No Yes No No No No   
## [5041] No Yes Yes No No No No No No No No Yes No No Yes Yes Yes No   
## [5059] No No No Yes Yes No No No No No Yes No No No No No No No   
## [5077] No No Yes No No No Yes Yes No No No No No No Yes Yes Yes No   
## [5095] No No No Yes No No No No No Yes Yes No No No Yes No No No   
## [5113] Yes No No Yes No Yes No Yes No No Yes Yes No Yes Yes No No No   
## [5131] No No No No No No No No No No No No No No No No Yes No   
## [5149] No No No No No No No No No Yes No No Yes No No No No No   
## [5167] Yes No No Yes No Yes No No No Yes No No Yes No No No No No   
## [5185] No No Yes No No No Yes No No No No No No No No Yes No No   
## [5203] Yes Yes No No Yes Yes Yes No No No No No No No No No No No   
## [5221] Yes No Yes No Yes No No No No No No No No Yes No No No Yes  
## [5239] Yes No No No Yes No No No No Yes Yes Yes No No No No No No   
## [5257] No No No No No Yes No Yes No No Yes No Yes No No No No Yes  
## [5275] No Yes No Yes No Yes No No No No No No No No No No Yes Yes  
## [5293] Yes No No No No Yes No No No No Yes Yes No No Yes No Yes No   
## [5311] No No No No No No No Yes No No Yes Yes No No Yes Yes No No   
## [5329] No No No No Yes Yes No No Yes No No No No No Yes No No No   
## [5347] No No No No Yes Yes No No No Yes No No No Yes No No Yes No   
## [5365] No Yes Yes No No No No Yes Yes No Yes No Yes No No Yes No Yes  
## [5383] No No Yes No Yes No Yes No No No No No No No No No No No   
## [5401] Yes No Yes No No Yes No No No No No No No No Yes No No No   
## [5419] No Yes No Yes No Yes No No No No Yes Yes Yes No Yes No No No   
## [5437] No Yes No No No Yes No No No Yes No Yes No Yes No No No No   
## [5455] Yes No No No No Yes No No No No No No Yes Yes No No No No   
## [5473] Yes Yes Yes No No No No No No No No No Yes Yes Yes No Yes Yes  
## [5491] Yes No No Yes No Yes No No No No Yes No No No No No No Yes  
## [5509] No Yes No No No Yes No No No No No No No No No No No No   
## [5527] No Yes No Yes No Yes Yes No No Yes No No Yes No Yes No No No   
## [5545] Yes No No Yes No No No No No No No No Yes No No No Yes No   
## [5563] No No Yes No No Yes No No Yes No Yes No Yes Yes Yes No No Yes  
## [5581] Yes No Yes No No No No No Yes No Yes Yes No No Yes No No No   
## [5599] Yes No Yes Yes No No No No Yes No No No No No Yes Yes No No   
## [5617] No No No Yes Yes Yes No No No Yes No Yes No Yes No Yes No No   
## [5635] Yes Yes No Yes No No No No Yes No Yes No No No No No No No   
## [5653] No Yes No Yes No No No No No Yes No No No No No No No Yes  
## [5671] Yes Yes No No Yes Yes No Yes No No No No No No No No No Yes  
## [5689] Yes Yes No No No Yes No No No Yes No No No No Yes No No Yes  
## [5707] Yes No No Yes No No No Yes No Yes No No No Yes No No No No   
## [5725] No No No No No Yes No No Yes No No No No Yes No No No Yes  
## [5743] No No No No No No No No Yes No No No No No Yes No No No   
## [5761] No No No No No No No No No No Yes No No Yes Yes No No No   
## [5779] Yes No No No No Yes No No No No No Yes Yes No No No Yes No   
## [5797] No Yes No No No Yes No Yes No No Yes No Yes No No No No No   
## [5815] No No Yes Yes No No No No Yes Yes No No No No No No No No   
## [5833] Yes No No No Yes No No No No Yes No Yes No No No No Yes No   
## [5851] No Yes No No Yes No No No No No No Yes Yes Yes No Yes No Yes  
## [5869] Yes No No Yes No No No Yes No No No Yes No No Yes No No Yes  
## [5887] No No No No No Yes Yes No No No No Yes No Yes No No No Yes  
## [5905] No No No No No No No No No No No No No No No No No No   
## [5923] Yes Yes Yes Yes No No Yes No No No No Yes Yes Yes No Yes Yes No   
## [5941] No No No No No No No Yes Yes No No No No No No No No Yes  
## [5959] Yes Yes No No No Yes No No Yes No No No No No No No No Yes  
## [5977] No No No No Yes No Yes Yes No Yes No No No No No No No Yes  
## [5995] No No No No No No Yes No No Yes No No No Yes No No No No   
## [6013] No No No Yes No No No Yes No Yes No Yes Yes No Yes No No Yes  
## [6031] Yes Yes No No Yes No No No No Yes No No No No No Yes No No   
## [6049] No No No No No No No Yes No Yes No Yes No No No No No Yes  
## [6067] No No No No No Yes No Yes No No Yes No No Yes Yes No Yes No   
## [6085] No No No No No No No Yes No No No No Yes Yes No No No No   
## [6103] No No No No No No No No No No No No No No Yes Yes No No   
## [6121] No No Yes No No No No No Yes No No No Yes Yes No No No Yes  
## [6139] No No No No Yes Yes No No Yes No Yes No No No No No No No   
## [6157] No Yes No Yes Yes No No Yes No Yes No Yes Yes No Yes No No No   
## [6175] No No No Yes No No No Yes No No No No Yes No Yes No Yes No   
## [6193] No Yes No No Yes No Yes No No No Yes No No No Yes No No No   
## [6211] Yes No No No Yes No No No Yes No No No Yes Yes No No Yes No   
## [6229] Yes No No Yes Yes No No No No No No No No No No No No No   
## [6247] No Yes Yes No No No No No No No No Yes Yes No No No No No   
## [6265] Yes No No No Yes No No No No No Yes No No No Yes No Yes Yes  
## [6283] No No No Yes No No No No No No No Yes No Yes Yes No No No   
## [6301] No No No Yes Yes No No No Yes No No No Yes Yes No No Yes No   
## [6319] No No No No No No Yes No No No No No Yes No Yes No No Yes  
## [6337] No Yes No No No No Yes No No No No No Yes No No Yes No No   
## [6355] No No Yes No No Yes No Yes No No No No Yes No Yes Yes Yes No   
## [6373] No No No No Yes No No Yes No No No No No No Yes No No Yes  
## [6391] No No Yes No No No No No No Yes No No No No Yes No No No   
## [6409] Yes No No No No No No Yes No No No Yes No No No No No Yes  
## [6427] No No No Yes No No No No No Yes No No No Yes No No No No   
## [6445] Yes No No No No No No Yes No Yes No No No No No No No No   
## [6463] No No Yes No No No No No Yes No No Yes No No No Yes No Yes  
## [6481] Yes No Yes No No No Yes Yes No Yes No No No No No Yes No Yes  
## [6499] Yes Yes Yes No No No No No Yes Yes No Yes No Yes No No No Yes  
## [6517] No Yes Yes No Yes No No No No No Yes No Yes Yes No No No Yes  
## [6535] No Yes Yes No No No Yes Yes No Yes No Yes No No No Yes No No   
## [6553] No Yes Yes No No No No No No No No No No No No No No No   
## [6571] No No No No No No No No No No No Yes Yes No Yes No No No   
## [6589] Yes No Yes Yes No No No No Yes Yes Yes Yes Yes No No Yes No No   
## [6607] No Yes No No No Yes No Yes Yes No Yes Yes No No No No No Yes  
## [6625] Yes Yes No No No No No No Yes No No No No No No No No No   
## [6643] No No No Yes No No No Yes No Yes No No No No No No Yes No   
## [6661] No No No No No No No No No No Yes Yes No No No No No Yes  
## [6679] No No No No No No No No No No No No No No No Yes No No   
## [6697] No No Yes No No No No No No No Yes Yes Yes No No No No No   
## [6715] Yes No Yes No No No No No No No Yes No No No No No Yes Yes  
## [6733] No No No Yes Yes No Yes No No No No No No No Yes No No Yes  
## [6751] No Yes No Yes No No No No No No No Yes Yes No No No No No   
## [6769] No No Yes No No No Yes Yes No No Yes No Yes Yes No No No Yes  
## [6787] No No No Yes No No No No No No No No Yes Yes Yes No Yes No   
## [6805] No Yes No No Yes No Yes Yes No Yes No No No No No No Yes No   
## [6823] No No No Yes No Yes Yes No No No Yes No No Yes No No No No   
## [6841] No No Yes No No No No Yes No Yes Yes Yes No Yes No Yes No Yes  
## [6859] Yes No No No No No No No Yes Yes No No No No No Yes Yes Yes  
## [6877] No No No No No No Yes Yes No Yes No No Yes No No No No No   
## [6895] No No Yes Yes No No No No No Yes No No No Yes No No No No   
## [6913] No Yes No Yes No No No Yes No No Yes No No Yes No No No No   
## [6931] No No Yes No Yes No No No No No No Yes Yes No No No No No   
## [6949] No No Yes Yes No No No No Yes Yes Yes Yes Yes Yes No No No No   
## [6967] No No No Yes No No No No No Yes No No No No Yes No Yes No   
## [6985] No Yes No No Yes No Yes No No No No Yes No Yes Yes Yes Yes No   
## [7003] No No No No No Yes No No Yes No No No No Yes No No No No   
## [7021] No Yes No Yes No No No No No No Yes No   
## Levels: No Yes

pdataF <- as.factor(ifelse(test=as.numeric(pdata>0.5) == 0, yes="Churn", no="Not Churned"))  
  
#confusionMatrix(pdataF,tablechurn$Churn)  
  
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE)

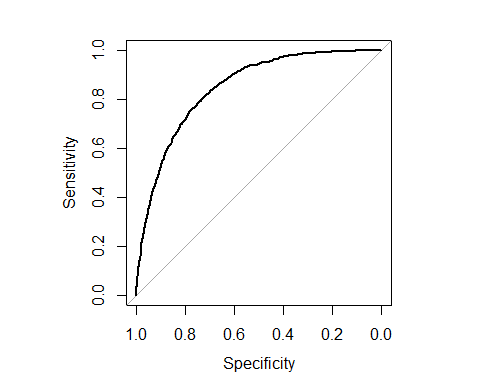
## Setting levels: control = No, case = Yes

## Setting direction: controls < cases

##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

par(pty='s')  
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE)

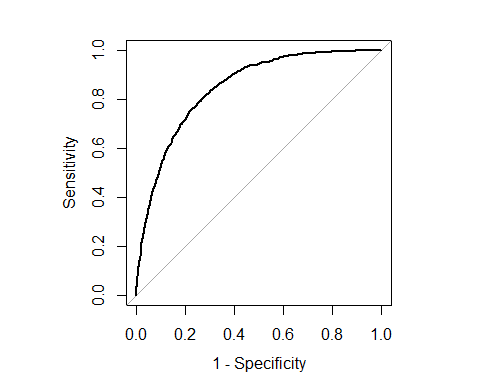
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

## NOTE: By default, roc() uses specificity on the x-axis and the values range  
## from 1 to 0. This makes the graph look like what we would expect, but the  
## x-axis itself might induce a headache. To use 1-specificity (i.e. the  
## False Positive Rate) on the x-axis, set "legacy.axes" to TRUE.  
  
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE)

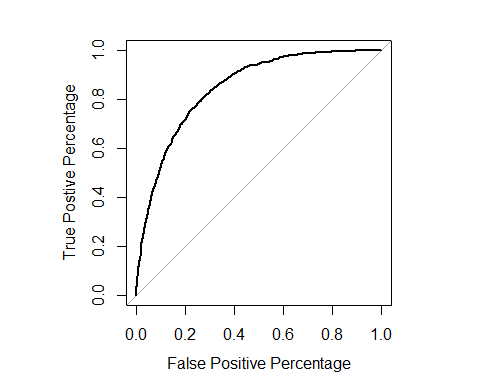
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE, legacy.axes = TRUE)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage")

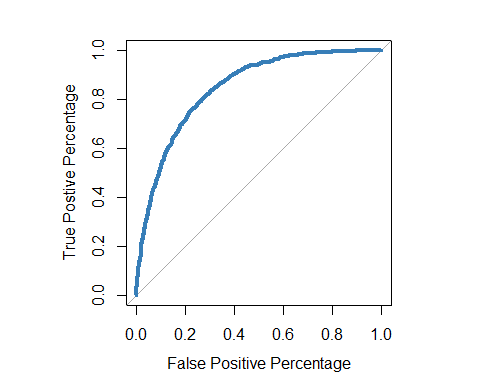
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage")  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4)

## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4)

## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases

##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 0.8454

## If we want to find out the optimal threshold we can store the  
## data used to make the ROC graph in a variable...  
roc.info <- roc(tablechurn$Churn, logistic$fitted.values, legacy.axes=TRUE)

## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases

str(roc.info)

## List of 15  
## $ percent : logi FALSE  
## $ sensitivities : num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...  
## $ specificities : num [1:4369] 0 0.000581 0.000775 0.005617 0.006198 ...  
## $ thresholds : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.00653 ...  
## $ direction : chr "<"  
## $ cases : Named num [1:1869] 0.295 0.722 0.816 0.476 0.4 ...  
## ..- attr(\*, "names")= chr [1:1869] "3" "5" "6" "9" ...  
## $ controls : Named num [1:5163] 0.5535 0.0434 0.0491 0.4165 0.3412 ...  
## ..- attr(\*, "names")= chr [1:5163] "1" "2" "4" "7" ...  
## $ fun.sesp :function (thresholds, controls, cases, direction)   
## $ auc : 'auc' num 0.845  
## ..- attr(\*, "partial.auc")= logi FALSE  
## ..- attr(\*, "percent")= logi FALSE  
## ..- attr(\*, "roc")=List of 15  
## .. ..$ percent : logi FALSE  
## .. ..$ sensitivities : num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...  
## .. ..$ specificities : num [1:4369] 0 0.000581 0.000775 0.005617 0.006198 ...  
## .. ..$ thresholds : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.00653 ...  
## .. ..$ direction : chr "<"  
## .. ..$ cases : Named num [1:1869] 0.295 0.722 0.816 0.476 0.4 ...  
## .. .. ..- attr(\*, "names")= chr [1:1869] "3" "5" "6" "9" ...  
## .. ..$ controls : Named num [1:5163] 0.5535 0.0434 0.0491 0.4165 0.3412 ...  
## .. .. ..- attr(\*, "names")= chr [1:5163] "1" "2" "4" "7" ...  
## .. ..$ fun.sesp :function (thresholds, controls, cases, direction)   
## .. ..$ auc : 'auc' num 0.845  
## .. .. ..- attr(\*, "partial.auc")= logi FALSE  
## .. .. ..- attr(\*, "percent")= logi FALSE  
## .. .. ..- attr(\*, "roc")=List of 8  
## .. .. .. ..$ percent : logi FALSE  
## .. .. .. ..$ sensitivities: num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...  
## .. .. .. ..$ specificities: num [1:4369] 0 0.000581 0.000775 0.005617 0.006198 ...  
## .. .. .. ..$ thresholds : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.00653 ...  
## .. .. .. ..$ direction : chr "<"  
## .. .. .. ..$ cases : Named num [1:1869] 0.295 0.722 0.816 0.476 0.4 ...  
## .. .. .. .. ..- attr(\*, "names")= chr [1:1869] "3" "5" "6" "9" ...  
## .. .. .. ..$ controls : Named num [1:5163] 0.5535 0.0434 0.0491 0.4165 0.3412 ...  
## .. .. .. .. ..- attr(\*, "names")= chr [1:5163] "1" "2" "4" "7" ...  
## .. .. .. ..$ fun.sesp :function (thresholds, controls, cases, direction)   
## .. .. .. ..- attr(\*, "class")= chr "roc"  
## .. ..$ call : language roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, legacy.axes = TRUE)  
## .. ..$ original.predictor: Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722 ...  
## .. .. ..- attr(\*, "names")= chr [1:7032] "1" "2" "3" "4" ...  
## .. ..$ original.response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1 ...  
## .. ..$ predictor : Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722 ...  
## .. .. ..- attr(\*, "names")= chr [1:7032] "1" "2" "3" "4" ...  
## .. ..$ response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1 ...  
## .. ..$ levels : chr [1:2] "No" "Yes"  
## .. ..- attr(\*, "class")= chr "roc"  
## $ call : language roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, legacy.axes = TRUE)  
## $ original.predictor: Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722 ...  
## ..- attr(\*, "names")= chr [1:7032] "1" "2" "3" "4" ...  
## $ original.response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1 ...  
## $ predictor : Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722 ...  
## ..- attr(\*, "names")= chr [1:7032] "1" "2" "3" "4" ...  
## $ response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1 ...  
## $ levels : chr [1:2] "No" "Yes"  
## - attr(\*, "class")= chr "roc"

roc.df <- data.frame(tpp=roc.info$sensitivities\*100, ## tpp = true positive percentage  
 fpp=(1 - roc.info$specificities)\*100, ## fpp = false positive precentage  
 thresholds=roc.info$thresholds)  
roc.df

## tpp fpp thresholds  
## 1 100.0000000 100.00000000 -Inf  
## 2 100.0000000 99.94189425 0.006159113  
## 3 100.0000000 99.92252566 0.006298493  
## 4 100.0000000 99.43831106 0.006445415  
## 5 100.0000000 99.38020531 0.006526601  
## 6 100.0000000 99.32209955 0.006554029  
## 7 100.0000000 99.30273097 0.006703425  
## 8 100.0000000 99.01220221 0.006844075  
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## 4059 34.8314607 4.99709471 0.618220905  
## 4060 34.7779561 4.99709471 0.618949539  
## 4061 34.7244516 4.99709471 0.619646845  
## 4062 34.6709470 4.99709471 0.619952946  
## 4063 34.5104334 4.99709471 0.620400908  
## 4064 34.4034243 4.99709471 0.621407672  
## 4065 34.3499197 4.99709471 0.622263062  
## 4066 34.2964152 4.99709471 0.622454268  
## 4067 34.2964152 4.97772613 0.622676756  
## 4068 34.2429106 4.97772613 0.623133061  
## 4069 34.1894061 4.95835754 0.623678249  
## 4070 34.1359016 4.95835754 0.624342330  
## 4071 34.0823970 4.95835754 0.625112111  
## 4072 33.9753879 4.93898896 0.625958720  
## 4073 33.9753879 4.91962038 0.626943387  
## 4074 33.9218834 4.91962038 0.627364065  
## 4075 33.8683788 4.91962038 0.627419474  
## 4076 33.8148743 4.90025179 0.627889162  
## 4077 33.8148743 4.88088321 0.628510100  
## 4078 33.7613697 4.88088321 0.628830995  
## 4079 33.7078652 4.88088321 0.629412397  
## 4080 33.5473515 4.86151462 0.630012625  
## 4081 33.5473515 4.84214604 0.630338180  
## 4082 33.4938470 4.82277745 0.630724250  
## 4083 33.4938470 4.80340887 0.631107943  
## 4084 33.3333333 4.78404029 0.631348249  
## 4085 33.2798288 4.78404029 0.631633341  
## 4086 33.2263242 4.76467170 0.632542040  
## 4087 33.1728197 4.76467170 0.633338215  
## 4088 33.1728197 4.74530312 0.633552787  
## 4089 33.0658106 4.74530312 0.633850615  
## 4090 33.0658106 4.72593453 0.634468866  
## 4091 32.8517924 4.66782878 0.635073131  
## 4092 32.8517924 4.60972303 0.635237819  
## 4093 32.7982879 4.59035445 0.635276063  
## 4094 32.7447833 4.59035445 0.635583134  
## 4095 32.6912788 4.59035445 0.635926505  
## 4096 32.6377742 4.57098586 0.636159886  
## 4097 32.5307651 4.55161728 0.636356548  
## 4098 32.5307651 4.53224869 0.637087175  
## 4099 32.4772606 4.53224869 0.638204992  
## 4100 32.4237560 4.51288011 0.638677367  
## 4101 32.1562333 4.39666860 0.639249103  
## 4102 32.0492242 4.39666860 0.639932922  
## 4103 31.9422151 4.39666860 0.640170762  
## 4104 31.9422151 4.37730002 0.640248789  
## 4105 31.8887105 4.37730002 0.640556603  
## 4106 31.8887105 4.35793144 0.640942713  
## 4107 31.8352060 4.33856285 0.641189352  
## 4108 31.8352060 4.31919427 0.641833407  
## 4109 31.8352060 4.29982568 0.642431711  
## 4110 31.7281969 4.29982568 0.642821109  
## 4111 31.6746923 4.29982568 0.643301027  
## 4112 31.5676833 4.28045710 0.643980500  
## 4113 31.5141787 4.28045710 0.644475775  
## 4114 31.4606742 4.28045710 0.644638894  
## 4115 31.3536651 4.26108851 0.644841799  
## 4116 31.2466560 4.24171993 0.645008528  
## 4117 31.1396469 4.20298276 0.645352143  
## 4118 31.0861423 4.18361418 0.645804949  
## 4119 30.9791332 4.14487701 0.646049834  
## 4120 30.9256287 4.14487701 0.646244630  
## 4121 30.8186196 4.12550843 0.646698481  
## 4122 30.7651150 4.12550843 0.647098482  
## 4123 30.7116105 4.10613984 0.647264742  
## 4124 30.6046014 4.10613984 0.647426684  
## 4125 30.5510968 4.10613984 0.647539239  
## 4126 30.4975923 4.10613984 0.647657320  
## 4127 30.4975923 4.08677126 0.647999567  
## 4128 30.4440877 4.08677126 0.648805261  
## 4129 30.3905832 4.08677126 0.649467909  
## 4130 30.3370787 4.02866550 0.649660008  
## 4131 29.5880150 3.85434825 0.649825713  
## 4132 29.5345104 3.85434825 0.649975152  
## 4133 29.4810059 3.85434825 0.650151002  
## 4134 29.3739968 3.85434825 0.650534735  
## 4135 29.3739968 3.83497966 0.650943595  
## 4136 28.7854468 3.68003099 0.651505036  
## 4137 28.6784377 3.68003099 0.652067815  
## 4138 28.4109149 3.66066241 0.652238043  
## 4139 28.4109149 3.64129382 0.652344176  
## 4140 28.4109149 3.62192524 0.652398935  
## 4141 28.4109149 3.60255665 0.653456220  
## 4142 28.1968967 3.52508232 0.654596404  
## 4143 28.0898876 3.52508232 0.656311773  
## 4144 27.9828785 3.52508232 0.658207784  
## 4145 27.9293740 3.50571373 0.658754374  
## 4146 27.9293740 3.48634515 0.659317709  
## 4147 27.8758694 3.48634515 0.659768946  
## 4148 27.8223649 3.46697656 0.660153210  
## 4149 27.7153558 3.46697656 0.660384802  
## 4150 27.6618513 3.46697656 0.661327775  
## 4151 27.5548422 3.44760798 0.662546472  
## 4152 27.3943285 3.44760798 0.663102125  
## 4153 27.3408240 3.44760798 0.663389852  
## 4154 27.2873194 3.44760798 0.663902785  
## 4155 27.2338149 3.44760798 0.664455905  
## 4156 27.2338149 3.42823940 0.664557985  
## 4157 27.2338149 3.40887081 0.664661014  
## 4158 27.1803103 3.40887081 0.665502902  
## 4159 27.1268058 3.40887081 0.666543110  
## 4160 27.0733012 3.38950223 0.666905809  
## 4161 27.0733012 3.37013364 0.667067538  
## 4162 26.9127876 3.33139647 0.667846781  
## 4163 26.8592830 3.33139647 0.670054927  
## 4164 26.8592830 3.31202789 0.671587872  
## 4165 26.7522739 3.31202789 0.672408586  
## 4166 26.7522739 3.27329072 0.673409868  
## 4167 26.7522739 3.25392214 0.674440846  
## 4168 26.6452648 3.25392214 0.675271816  
## 4169 26.5917603 3.25392214 0.675451940  
## 4170 26.5382558 3.25392214 0.675764574  
## 4171 26.5382558 3.23455355 0.676158538  
## 4172 26.4847512 3.21518497 0.676439075  
## 4173 26.4847512 3.19581639 0.676981232  
## 4174 26.3777421 3.19581639 0.677517444  
## 4175 26.2707330 3.17644780 0.677563469  
## 4176 26.1637239 3.17644780 0.677609489  
## 4177 26.1637239 3.15707922 0.677762655  
## 4178 26.1102194 3.15707922 0.677988067  
## 4179 26.0032103 3.15707922 0.678492841  
## 4180 26.0032103 3.13771063 0.678928811  
## 4181 25.9497057 3.13771063 0.679059867  
## 4182 25.8962012 3.13771063 0.679510382  
## 4183 25.8426966 3.13771063 0.680078976  
## 4184 25.7891921 3.13771063 0.681296558  
## 4185 25.7356875 3.11834205 0.682572749  
## 4186 25.6821830 3.11834205 0.682973866  
## 4187 25.6286784 3.11834205 0.683482917  
## 4188 25.5751739 3.09897347 0.683936167  
## 4189 25.5751739 3.07960488 0.684035816  
## 4190 25.5216693 3.07960488 0.684377008  
## 4191 25.4146602 3.07960488 0.684811408  
## 4192 25.3611557 3.07960488 0.684968554  
## 4193 25.2541466 3.07960488 0.685550076  
## 4194 25.2006421 3.07960488 0.686607696  
## 4195 25.1471375 3.07960488 0.687181155  
## 4196 25.0936330 3.04086771 0.687525385  
## 4197 25.0401284 3.04086771 0.688064245  
## 4198 25.0401284 3.02149913 0.688807140  
## 4199 24.6655966 2.96339338 0.689348613  
## 4200 24.3445693 2.90528762 0.690081276  
## 4201 24.3445693 2.86655046 0.690815280  
## 4202 24.2375602 2.86655046 0.691448095  
## 4203 24.1840556 2.86655046 0.692464078  
## 4204 24.1305511 2.86655046 0.693048590  
## 4205 24.1305511 2.82781329 0.693581542  
## 4206 23.9700375 2.78907612 0.694126414  
## 4207 23.9165329 2.78907612 0.694500529  
## 4208 23.8630284 2.78907612 0.694952074  
## 4209 23.7560193 2.78907612 0.695258746  
## 4210 23.7025147 2.78907612 0.695840500  
## 4211 23.6490102 2.73097037 0.696376784  
## 4212 23.6490102 2.69223320 0.696431598  
## 4213 23.5420011 2.69223320 0.696568547  
## 4214 23.4884965 2.67286461 0.697111663  
## 4215 23.2744783 2.67286461 0.698066557  
## 4216 23.1674692 2.65349603 0.698742321  
## 4217 23.1139647 2.63412745 0.698959598  
## 4218 23.0604601 2.61475886 0.699212555  
## 4219 23.0069556 2.61475886 0.699516773  
## 4220 22.9534510 2.61475886 0.699837266  
## 4221 22.9534510 2.59539028 0.700406790  
## 4222 22.7929374 2.51791594 0.700857759  
## 4223 22.6859283 2.49854736 0.701010395  
## 4224 22.6324238 2.47917877 0.701603147  
## 4225 22.3649010 2.42107302 0.702257356  
## 4226 22.3649010 2.40170444 0.702775304  
## 4227 22.2578919 2.40170444 0.703684092  
## 4228 22.2043874 2.40170444 0.704405671  
## 4229 22.1508828 2.40170444 0.704968947  
## 4230 21.7763510 2.34359868 0.705857723  
## 4231 21.7228464 2.34359868 0.706587227  
## 4232 21.6693419 2.30486151 0.706839321  
## 4233 21.6693419 2.28549293 0.707053166  
## 4234 21.6158373 2.24675576 0.707576155  
## 4235 21.5623328 2.24675576 0.708310093  
## 4236 21.5623328 2.22738718 0.708694929  
## 4237 21.2413055 2.20801859 0.708743444  
## 4238 21.1342964 2.20801859 0.709327178  
## 4239 20.9737828 2.18865001 0.710294140  
## 4240 20.9202782 2.18865001 0.710804167  
## 4241 20.7597646 2.16928143 0.710943303  
## 4242 20.4387373 2.16928143 0.711045782  
## 4243 20.3852327 2.16928143 0.711532130  
## 4244 20.2782236 2.16928143 0.712048468  
## 4245 20.1177100 2.16928143 0.712549931  
## 4246 20.0642055 2.16928143 0.713057593  
## 4247 20.0107009 2.14991284 0.713166764  
## 4248 19.9571964 2.14991284 0.714296218  
## 4249 19.9036918 2.14991284 0.715913740  
## 4250 19.7966827 2.14991284 0.717008021  
## 4251 19.2081327 2.11117567 0.717753456  
## 4252 19.0476190 2.05306992 0.719025715  
## 4253 18.9941145 2.05306992 0.720192923  
## 4254 18.9406100 2.05306992 0.720383365  
## 4255 18.7800963 2.05306992 0.720773368  
## 4256 18.7265918 2.03370134 0.721512173  
## 4257 15.8908507 1.58822390 0.723123636  
## 4258 15.8373462 1.58822390 0.724871810  
## 4259 15.7838416 1.58822390 0.725955720  
## 4260 15.7838416 1.56885532 0.726442656  
## 4261 15.7303371 1.56885532 0.728113817  
## 4262 15.6768325 1.56885532 0.729789990  
## 4263 15.6768325 1.54948673 0.729891501  
## 4264 15.6233280 1.54948673 0.730094950  
## 4265 15.6233280 1.53011815 0.731079448  
## 4266 15.5698234 1.53011815 0.732091934  
## 4267 15.5698234 1.51074956 0.732572840  
## 4268 15.5163189 1.51074956 0.733315099  
## 4269 15.5163189 1.49138098 0.733789068  
## 4270 15.4093098 1.47201240 0.734031751  
## 4271 15.3558052 1.47201240 0.735025410  
## 4272 15.3023007 1.47201240 0.736435124  
## 4273 15.2487961 1.47201240 0.737093536  
## 4274 14.9277689 1.47201240 0.737562750  
## 4275 14.8742643 1.47201240 0.738152130  
## 4276 14.8207598 1.47201240 0.738503350  
## 4277 14.7672552 1.47201240 0.739366521  
## 4278 14.7137507 1.47201240 0.740081124  
## 4279 14.6602461 1.47201240 0.740262782  
## 4280 14.6067416 1.47201240 0.740490839  
## 4281 14.5532370 1.47201240 0.740920371  
## 4282 14.4997325 1.47201240 0.741746225  
## 4283 14.4997325 1.45264381 0.742304488  
## 4284 14.4462279 1.45264381 0.742443743  
## 4285 14.3927234 1.43327523 0.743364373  
## 4286 14.3927234 1.39453806 0.744259724  
## 4287 14.1787052 1.37516948 0.744387016  
## 4288 14.0716961 1.35580089 0.745389911  
## 4289 13.9646870 1.33643231 0.746336551  
## 4290 13.9111825 1.33643231 0.746376431  
## 4291 13.7506688 1.27832655 0.747369286  
## 4292 13.6971643 1.25895797 0.749384990  
## 4293 13.6436597 1.25895797 0.750463516  
## 4294 13.5901552 1.25895797 0.750631527  
## 4295 13.5366506 1.25895797 0.750809714  
## 4296 13.5366506 1.23958939 0.751202801  
## 4297 13.4831461 1.23958939 0.751674885  
## 4298 13.4296415 1.23958939 0.752171454  
## 4299 13.3761370 1.23958939 0.753539047  
## 4300 13.3226324 1.23958939 0.754560835  
## 4301 13.2156233 1.23958939 0.755314608  
## 4302 13.1621188 1.23958939 0.756314409  
## 4303 13.1086142 1.22022080 0.757550579  
## 4304 13.0551097 1.22022080 0.758660262  
## 4305 13.0551097 1.18148363 0.759104750  
## 4306 13.0016051 1.16211505 0.759547816  
## 4307 12.8945960 1.16211505 0.759736319  
## 4308 12.8410915 1.16211505 0.759924679  
## 4309 12.7875869 1.14274647 0.760835918  
## 4310 12.5735688 1.14274647 0.761743071  
## 4311 12.5200642 1.14274647 0.762187994  
## 4312 12.1990369 1.02653496 0.762635971  
## 4313 12.0920278 1.02653496 0.763074349  
## 4314 11.8780096 0.98779779 0.763567285  
## 4315 11.7710005 0.96842921 0.764077890  
## 4316 11.7174960 0.94906062 0.764759413  
## 4317 11.7174960 0.92969204 0.765205287  
## 4318 11.5569823 0.92969204 0.765421252  
## 4319 11.5034778 0.92969204 0.765553047  
## 4320 11.4499732 0.91032346 0.765996229  
## 4321 9.8448368 0.75537478 0.766855592  
## 4322 9.7913323 0.75537478 0.767406159  
## 4323 9.7913323 0.73600620 0.768365365  
## 4324 9.4168004 0.71663761 0.769323820  
## 4325 9.1492777 0.67790045 0.770296289  
## 4326 9.0422686 0.65853186 0.771145642  
## 4327 8.9887640 0.65853186 0.771274090  
## 4328 8.9352595 0.65853186 0.772222046  
## 4329 7.6511503 0.52295177 0.773404521  
## 4330 7.6511503 0.50358319 0.774365505  
## 4331 6.4740503 0.46484602 0.777004082  
## 4332 6.4205457 0.46484602 0.780782247  
## 4333 6.3670412 0.46484602 0.783457994  
## 4334 6.3135367 0.46484602 0.784969385  
## 4335 6.3135367 0.44547744 0.785883514  
## 4336 6.2600321 0.40674027 0.786729387  
## 4337 6.2065276 0.40674027 0.787649893  
## 4338 6.0995185 0.38737168 0.788631444  
## 4339 6.0460139 0.38737168 0.789918403  
## 4340 5.9390048 0.38737168 0.790718852  
## 4341 5.8855003 0.36800310 0.790839326  
## 4342 5.8319957 0.36800310 0.791284861  
## 4343 5.7784912 0.36800310 0.792925402  
## 4344 5.7784912 0.32926593 0.794189686  
## 4345 5.5644730 0.32926593 0.794308660  
## 4346 5.5109684 0.32926593 0.796047200  
## 4347 5.4039593 0.30989735 0.798728673  
## 4348 5.3504548 0.30989735 0.800487919  
## 4349 5.2969502 0.30989735 0.802946780  
## 4350 5.2434457 0.30989735 0.805649025  
## 4351 5.1899411 0.30989735 0.807354212  
## 4352 5.0829320 0.29052876 0.808197112  
## 4353 4.9224184 0.25179159 0.809046245  
## 4354 4.6548957 0.25179159 0.809894614  
## 4355 4.4943820 0.25179159 0.810726965  
## 4356 4.0663456 0.23242301 0.811912383  
## 4357 3.9058320 0.23242301 0.812750077  
## 4358 3.5313002 0.17431726 0.814293008  
## 4359 3.3707865 0.17431726 0.815572931  
## 4360 2.7822365 0.15494867 0.817204265  
## 4361 1.6051364 0.09684292 0.821256066  
## 4362 1.5516319 0.09684292 0.825255172  
## 4363 1.4981273 0.09684292 0.826828547  
## 4364 1.3911182 0.09684292 0.828381107  
## 4365 1.2841091 0.09684292 0.837641201  
## 4366 1.0165864 0.09684292 0.846774779  
## 4367 0.8560728 0.07747434 0.848190325  
## 4368 0.6420546 0.05810575 0.849585927  
## 4369 0.0000000 0.00000000 Inf

head(roc.df) ## head() will show us the values for the upper right-hand corner of the ROC graph, when the threshold is so low

## tpp fpp thresholds  
## 1 100 100.00000 -Inf  
## 2 100 99.94189 0.006159113  
## 3 100 99.92253 0.006298493  
## 4 100 99.43831 0.006445415  
## 5 100 99.38021 0.006526601  
## 6 100 99.32210 0.006554029

## (negative infinity) that every single sample is called "obese".  
## Thus TPP = 100% and FPP = 100%  
tail(roc.df) ## tail() will show us the values for the lower left-hand corner

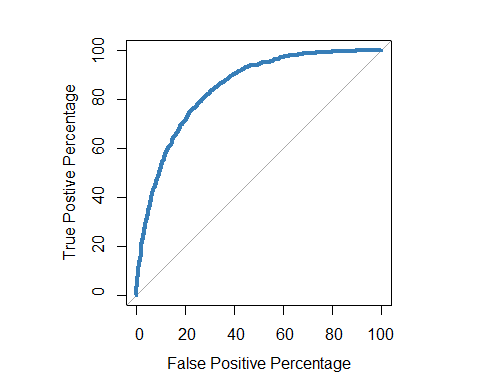
## tpp fpp thresholds  
## 4364 1.3911182 0.09684292 0.8283811  
## 4365 1.2841091 0.09684292 0.8376412  
## 4366 1.0165864 0.09684292 0.8467748  
## 4367 0.8560728 0.07747434 0.8481903  
## 4368 0.6420546 0.05810575 0.8495859  
## 4369 0.0000000 0.00000000 Inf

## of the ROC graph, when the threshold is so high (infinity)  
## that every single sample is called "not obese".  
## Thus, TPP = 0% and FPP = 0%  
## now let's look at the thresholds between TPP 60% and 80%  
roc.df[roc.df$tpp > 60 & roc.df$tpp < 80,]

## tpp fpp thresholds  
## 2654 79.98930 26.78675 0.2678107  
## 2655 79.98930 26.76738 0.2681247  
## 2656 79.93579 26.76738 0.2683970  
## 2657 79.93579 26.74801 0.2686295  
## 2658 79.88229 26.74801 0.2688127  
## 2659 79.82879 26.70928 0.2689509  
## 2660 79.77528 26.70928 0.2690479  
## 2661 79.77528 26.68991 0.2691103  
## 2662 79.77528 26.67054 0.2691599  
## 2663 79.72178 26.67054 0.2692295  
## 2664 79.66827 26.67054 0.2692969  
## 2665 79.66827 26.65117 0.2694064  
## 2666 79.66827 26.63180 0.2695606  
## 2667 79.66827 26.61243 0.2697665  
## 2668 79.61477 26.61243 0.2700501  
## 2669 79.56126 26.61243 0.2702727  
## 2670 79.56126 26.59307 0.2703669  
## 2671 79.50776 26.59307 0.2704229  
## 2672 79.50776 26.57370 0.2704465  
## 2673 79.45425 26.57370 0.2705152  
## 2674 79.45425 26.55433 0.2708200  
## 2675 79.45425 26.51559 0.2711228  
## 2676 79.40075 26.51559 0.2712119  
## 2677 79.40075 26.49622 0.2712832  
## 2678 79.40075 26.47685 0.2714912  
## 2679 79.40075 26.45749 0.2716956  
## 2680 79.34724 26.45749 0.2718247  
## 2681 79.34724 26.43812 0.2721628  
## 2682 79.34724 26.41875 0.2725211  
## 2683 79.34724 26.39938 0.2728452  
## 2684 79.34724 26.38001 0.2731290  
## 2685 79.34724 26.36064 0.2732564  
## 2686 79.29374 26.36064 0.2733777  
## 2687 79.24024 26.36064 0.2734583  
## 2688 79.24024 26.34127 0.2737768  
## 2689 79.24024 26.32191 0.2741113  
## 2690 79.18673 26.32191 0.2742177  
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## 3116 70.35848 18.98121 0.3599406  
## 3117 70.35848 18.96184 0.3601784  
## 3118 70.35848 18.94248 0.3604109  
## 3119 70.35848 18.92311 0.3606834  
## 3120 70.35848 18.90374 0.3607897  
## 3121 70.35848 18.88437 0.3609194  
## 3122 70.30498 18.88437 0.3612923  
## 3123 70.30498 18.86500 0.3618422  
## 3124 70.30498 18.84563 0.3621500  
## 3125 70.30498 18.82626 0.3624055  
## 3126 70.30498 18.80690 0.3626071  
## 3127 70.30498 18.78753 0.3626470  
## 3128 70.30498 18.76816 0.3628440  
## 3129 70.25147 18.76816 0.3630194  
## 3130 70.25147 18.74879 0.3630524  
## 3131 70.19797 18.74879 0.3632153  
## 3132 70.14446 18.74879 0.3633603  
## 3133 70.09096 18.74879 0.3633900  
## 3134 70.09096 18.72942 0.3634959  
## 3135 70.09096 18.69068 0.3637115  
## 3136 70.09096 18.65195 0.3640160  
## 3137 70.09096 18.63258 0.3641899  
## 3138 70.03745 18.61321 0.3642386  
## 3139 69.98395 18.61321 0.3643835  
## 3140 69.93044 18.61321 0.3644866  
## 3141 69.93044 18.59384 0.3645477  
## 3142 69.93044 18.57447 0.3646614  
## 3143 69.87694 18.57447 0.3647266  
## 3144 69.87694 18.55510 0.3648087  
## 3145 69.82343 18.55510 0.3653173  
## 3146 69.82343 18.53574 0.3659431  
## 3147 69.82343 18.49700 0.3663438  
## 3148 69.82343 18.47763 0.3665974  
## 3149 69.82343 18.45826 0.3667464  
## 3150 69.76993 18.45826 0.3669647  
## 3151 69.76993 18.43889 0.3671158  
## 3152 69.76993 18.41952 0.3671721  
## 3153 69.76993 18.40015 0.3672554  
## 3154 69.71643 18.40015 0.3674985  
## 3155 69.66292 18.40015 0.3677384  
## 3156 69.66292 18.38079 0.3678582  
## 3157 69.66292 18.36142 0.3679660  
## 3158 69.66292 18.32268 0.3680492  
## 3159 69.60942 18.32268 0.3680982  
## 3160 69.55591 18.32268 0.3682172  
## 3161 69.50241 18.32268 0.3684788  
## 3162 69.50241 18.30331 0.3687662  
## 3163 69.50241 18.28394 0.3689442  
## 3164 69.50241 18.26457 0.3693138  
## 3165 69.50241 18.24521 0.3699385  
## 3166 69.50241 18.22584 0.3703303  
## 3167 69.50241 18.20647 0.3705385  
## 3168 69.50241 18.18710 0.3707373  
## 3169 69.50241 18.16773 0.3710152  
## 3170 69.50241 18.14836 0.3717187  
## 3171 69.50241 18.12899 0.3722296  
## 3172 69.50241 18.10963 0.3722480  
## 3173 69.44890 18.10963 0.3725458  
## 3174 69.39540 18.10963 0.3728913  
## 3175 69.39540 18.09026 0.3729976  
## 3176 69.34189 18.09026 0.3730768  
## 3177 69.28839 18.09026 0.3731382  
## 3178 69.28839 18.07089 0.3732417  
## 3179 69.23488 18.05152 0.3733489  
## 3180 69.23488 18.03215 0.3733982  
## 3181 69.18138 18.03215 0.3734447  
## 3182 69.18138 18.01278 0.3735520  
## 3183 69.12788 18.01278 0.3738541  
## 3184 69.12788 17.99341 0.3742883  
## 3185 69.07437 17.99341 0.3745375  
## 3186 69.07437 17.97405 0.3746095  
## 3187 69.07437 17.95468 0.3747341  
## 3188 69.07437 17.93531 0.3749125  
## 3189 69.02087 17.93531 0.3750385  
## 3190 69.02087 17.91594 0.3756572  
## 3191 69.02087 17.89657 0.3764456  
## 3192 69.02087 17.87720 0.3767005  
## 3193 69.02087 17.85783 0.3768787  
## 3194 69.02087 17.83847 0.3770614  
## 3195 68.96736 17.81910 0.3772849  
## 3196 68.91386 17.81910 0.3776604  
## 3197 68.91386 17.79973 0.3779778  
## 3198 68.86035 17.78036 0.3781175  
## 3199 68.86035 17.76099 0.3782066  
## 3200 68.80685 17.76099 0.3782760  
## 3201 68.75334 17.76099 0.3783319  
## 3202 68.69984 17.76099 0.3785739  
## 3203 68.64633 17.76099 0.3788132  
## 3204 68.59283 17.76099 0.3789758  
## 3205 68.59283 17.74162 0.3791853  
## 3206 68.59283 17.66415 0.3793314  
## 3207 68.48582 17.56731 0.3793846  
## 3208 68.43232 17.56731 0.3794379  
## 3209 68.43232 17.54794 0.3795561  
## 3210 68.37881 17.54794 0.3797459  
## 3211 68.37881 17.52857 0.3800311  
## 3212 68.37881 17.50920 0.3802786  
## 3213 68.37881 17.48983 0.3804889  
## 3214 68.32531 17.48983 0.3806653  
## 3215 68.16479 17.45109 0.3808055  
## 3216 68.11129 17.45109 0.3809964  
## 3217 68.11129 17.43173 0.3812188  
## 3218 68.11129 17.41236 0.3814131  
## 3219 68.11129 17.39299 0.3815478  
## 3220 68.05778 17.39299 0.3816976  
## 3221 67.95078 17.39299 0.3817862  
## 3222 67.89727 17.39299 0.3818360  
## 3223 67.89727 17.37362 0.3818964  
## 3224 67.84377 17.37362 0.3819100  
## 3225 67.79026 17.33488 0.3819843  
## 3226 67.79026 17.31551 0.3821030  
## 3227 67.79026 17.29615 0.3823468  
## 3228 67.79026 17.27678 0.3825516  
## 3229 67.73676 17.27678 0.3827236  
## 3230 67.73676 17.25741 0.3829476  
## 3231 67.68325 17.25741 0.3832172  
## 3232 67.62975 17.25741 0.3835313  
## 3233 67.62975 17.23804 0.3837658  
## 3234 67.57624 17.23804 0.3839464  
## 3235 67.52274 17.23804 0.3840507  
## 3236 67.52274 17.21867 0.3841731  
## 3237 67.52274 17.19930 0.3843380  
## 3238 67.52274 17.17993 0.3844797  
## 3239 67.52274 17.16057 0.3845743  
## 3240 67.52274 17.14120 0.3847984  
## 3241 67.46923 17.14120 0.3850435  
## 3242 67.46923 17.12183 0.3851908  
## 3243 67.41573 17.12183 0.3853099  
## 3244 67.36223 17.12183 0.3855841  
## 3245 67.30872 17.10246 0.3859402  
## 3246 67.25522 17.10246 0.3862423  
## 3247 67.25522 17.08309 0.3864320  
## 3248 67.25522 17.06372 0.3865580  
## 3249 67.20171 17.06372 0.3867331  
## 3250 67.20171 17.04435 0.3868652  
## 3251 67.20171 17.02499 0.3870287  
## 3252 67.14821 17.02499 0.3871851  
## 3253 67.09470 17.02499 0.3872711  
## 3254 67.09470 17.00562 0.3872982  
## 3255 67.04120 17.00562 0.3873854  
## 3256 66.98769 17.00562 0.3875616  
## 3257 66.82718 17.00562 0.3877441  
## 3258 66.82718 16.98625 0.3880409  
## 3259 66.82718 16.96688 0.3883141  
## 3260 66.82718 16.94751 0.3884127  
## 3261 66.82718 16.92814 0.3884549  
## 3262 66.82718 16.90877 0.3884826  
## 3263 66.82718 16.88941 0.3886550  
## 3264 66.82718 16.87004 0.3889734  
## 3265 66.82718 16.85067 0.3892081  
## 3266 66.82718 16.83130 0.3892973  
## 3267 66.82718 16.81193 0.3895078  
## 3268 66.77368 16.81193 0.3899029  
## 3269 66.77368 16.79256 0.3901552  
## 3270 66.77368 16.77319 0.3902140  
## 3271 66.77368 16.75383 0.3905956  
## 3272 66.77368 16.73446 0.3911235  
## 3273 66.72017 16.73446 0.3913905  
## 3274 66.72017 16.71509 0.3916446  
## 3275 66.72017 16.69572 0.3918247  
## 3276 66.72017 16.67635 0.3921359  
## 3277 66.72017 16.65698 0.3924515  
## 3278 66.66667 16.65698 0.3924978  
## 3279 66.61316 16.65698 0.3928181  
## 3280 66.61316 16.61825 0.3932422  
## 3281 66.61316 16.59888 0.3933641  
## 3282 66.55966 16.59888 0.3934698  
## 3283 66.50615 16.59888 0.3936120  
## 3284 66.34564 16.57951 0.3936623  
## 3285 66.34564 16.54077 0.3936708  
## 3286 66.34564 16.52140 0.3937052  
## 3287 66.34564 16.50203 0.3937499  
## 3288 66.34564 16.48267 0.3938298  
## 3289 66.34564 16.46330 0.3939417  
## 3290 66.34564 16.44393 0.3941873  
## 3291 66.34564 16.42456 0.3943835  
## 3292 66.29213 16.42456 0.3944347  
## 3293 66.23863 16.42456 0.3945020  
## 3294 66.23863 16.40519 0.3946823  
## 3295 66.23863 16.38582 0.3948649  
## 3296 66.23863 16.36645 0.3949369  
## 3297 66.23863 16.34709 0.3950009  
## 3298 66.23863 16.32772 0.3950943  
## 3299 66.18513 16.32772 0.3953827  
## 3300 66.13162 16.32772 0.3958142  
## 3301 66.07812 16.32772 0.3961004  
## 3302 66.02461 16.32772 0.3963141  
## 3303 65.97111 16.32772 0.3965884  
## 3304 65.97111 16.30835 0.3968465  
## 3305 65.91760 16.28898 0.3970035  
## 3306 65.91760 16.26961 0.3970413  
## 3307 65.91760 16.25024 0.3971686  
## 3308 65.86410 16.25024 0.3973206  
## 3309 65.81059 16.25024 0.3974823  
## 3310 65.75709 16.25024 0.3976205  
## 3311 65.75709 16.23087 0.3976751  
## 3312 65.75709 16.21150 0.3979041  
## 3313 65.75709 16.19214 0.3981094  
## 3314 65.75709 16.17277 0.3981727  
## 3315 65.70358 16.17277 0.3982896  
## 3316 65.65008 16.17277 0.3987355  
## 3317 65.59658 16.13403 0.3992053  
## 3318 65.59658 16.11466 0.3994415  
## 3319 65.59658 16.09529 0.3996502  
## 3320 65.59658 16.07592 0.3997685  
## 3321 65.54307 16.07592 0.3998807  
## 3322 65.48957 16.05656 0.4000555  
## 3323 65.43606 16.05656 0.4002494  
## 3324 65.43606 16.03719 0.4004543  
## 3325 65.43606 16.01782 0.4006687  
## 3326 65.38256 16.01782 0.4007545  
## 3327 65.38256 15.97908 0.4010754  
## 3328 65.27555 15.88224 0.4014679  
## 3329 65.27555 15.86287 0.4016386  
## 3330 65.27555 15.84350 0.4017912  
## 3331 65.22204 15.82413 0.4019226  
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## 3333 65.22204 15.76603 0.4025598  
## 3334 65.16854 15.74666 0.4028503  
## 3335 65.11503 15.70792 0.4031645  
## 3336 65.11503 15.68855 0.4032849  
## 3337 65.11503 15.66918 0.4034106  
## 3338 65.11503 15.63045 0.4034875  
## 3339 65.11503 15.61108 0.4038023  
## 3340 65.11503 15.59171 0.4042018  
## 3341 65.11503 15.57234 0.4044518  
## 3342 65.11503 15.55297 0.4047241  
## 3343 65.06153 15.55297 0.4048487  
## 3344 65.06153 15.53360 0.4049168  
## 3345 65.06153 15.51424 0.4051102  
## 3346 65.06153 15.45613 0.4053071  
## 3347 64.95452 15.39802 0.4053975  
## 3348 64.90102 15.39802 0.4055867  
## 3349 64.90102 15.37866 0.4060051  
## 3350 64.84751 15.37866 0.4063541  
## 3351 64.79401 15.37866 0.4065260  
## 3352 64.74050 15.37866 0.4066848  
## 3353 64.74050 15.35929 0.4067801  
## 3354 64.74050 15.33992 0.4071877  
## 3355 64.74050 15.32055 0.4076938  
## 3356 64.74050 15.30118 0.4080747  
## 3357 64.74050 15.28181 0.4087187  
## 3358 64.68700 15.28181 0.4092128  
## 3359 64.68700 15.26244 0.4094706  
## 3360 64.68700 15.24308 0.4097280  
## 3361 64.68700 15.22371 0.4098610  
## 3362 64.63349 15.22371 0.4099075  
## 3363 64.57999 15.22371 0.4101988  
## 3364 64.57999 15.20434 0.4106931  
## 3365 64.52648 15.20434 0.4109228  
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## 3369 64.41948 15.16560 0.4117781  
## 3370 64.36597 15.16560 0.4119545  
## 3371 64.25896 15.16560 0.4121498  
## 3372 64.20546 15.16560 0.4122447  
## 3373 64.15195 15.16560 0.4123854  
## 3374 64.09845 15.12686 0.4125115  
## 3375 64.09845 15.10750 0.4125477  
## 3376 64.09845 15.08813 0.4127454  
## 3377 64.09845 15.06876 0.4130040  
## 3378 64.09845 15.04939 0.4130949  
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## 3381 64.04494 14.97192 0.4132793  
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## 3386 63.88443 14.91381 0.4135502  
## 3387 63.83093 14.91381 0.4137888  
## 3388 63.77742 14.89444 0.4141116  
## 3389 63.77742 14.87507 0.4142522  
## 3390 63.77742 14.85570 0.4148523  
## 3391 63.72392 14.83634 0.4156006  
## 3392 63.72392 14.79760 0.4159541  
## 3393 63.72392 14.77823 0.4162908  
## 3394 63.67041 14.77823 0.4164764  
## 3395 63.67041 14.75886 0.4165229  
## 3396 63.67041 14.73949 0.4165951  
## 3397 63.67041 14.72012 0.4168251  
## 3398 63.13537 14.60391 0.4170761  
## 3399 63.13537 14.58454 0.4171508  
## 3400 63.13537 14.56518 0.4172033  
## 3401 63.13537 14.54581 0.4173796  
## 3402 62.97485 14.50707 0.4175910  
## 3403 62.92135 14.50707 0.4179178  
## 3404 62.92135 14.48770 0.4182448  
## 3405 62.86784 14.48770 0.4183556  
## 3406 62.06528 14.27465 0.4184852  
## 3407 62.01177 14.27465 0.4190887  
## 3408 61.74425 14.17780 0.4197780  
## 3409 61.74425 14.15844 0.4200251  
## 3410 61.74425 14.13907 0.4202001  
## 3411 61.74425 14.11970 0.4203143  
## 3412 61.63724 14.08096 0.4203320  
## 3413 61.63724 14.06159 0.4203720  
## 3414 61.58373 14.02285 0.4204458  
## 3415 61.53023 14.02285 0.4204925  
## 3416 61.53023 14.00349 0.4206700  
## 3417 61.53023 13.98412 0.4209456  
## 3418 61.53023 13.96475 0.4210625  
## 3419 61.53023 13.94538 0.4212320  
## 3420 61.53023 13.92601 0.4214011  
## 3421 61.47673 13.90664 0.4214231  
## 3422 61.47673 13.88727 0.4214841  
## 3423 61.47673 13.86791 0.4215612  
## 3424 61.42322 13.86791 0.4216863  
## 3425 61.36972 13.82917 0.4221067  
## 3426 61.36972 13.79043 0.4226355  
## 3427 61.36972 13.77106 0.4230182  
## 3428 61.36972 13.75169 0.4234247  
## 3429 61.36972 13.73233 0.4237033  
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## 3431 61.31621 13.71296 0.4240343  
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## 3434 61.31621 13.65485 0.4245772  
## 3435 61.31621 13.63548 0.4245968  
## 3436 61.26271 13.63548 0.4246670  
## 3437 61.26271 13.61611 0.4248378  
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## 3448 61.04869 13.42243 0.4273285  
## 3449 60.99518 13.42243 0.4276077  
## 3450 60.99518 13.38369 0.4278510  
## 3451 60.94168 13.38369 0.4283140  
## 3452 60.88818 13.38369 0.4286069  
## 3453 60.88818 13.36432 0.4289561  
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## 3455 60.83467 13.34495 0.4300163  
## 3456 60.83467 13.32559 0.4304360  
## 3457 60.78117 13.32559 0.4304877  
## 3458 60.78117 13.30622 0.4306662  
## 3459 60.78117 13.28685 0.4308140  
## 3460 60.78117 13.26748 0.4308849  
## 3461 60.78117 13.24811 0.4309563  
## 3462 60.72766 13.24811 0.4310750  
## 3463 60.72766 13.20937 0.4312536  
## 3464 60.72766 13.19001 0.4313389  
## 3465 60.72766 13.17064 0.4313807  
## 3466 60.72766 13.15127 0.4315675  
## 3467 60.72766 13.11253 0.4318020  
## 3468 60.67416 13.11253 0.4319711  
## 3469 60.62065 13.01569 0.4321456  
## 3470 60.56715 13.01569 0.4324079  
## 3471 60.51364 12.99632 0.4326056  
## 3472 60.46014 12.97695 0.4327509  
## 3473 60.40663 12.97695 0.4330886  
## 3474 60.35313 12.93821 0.4332928  
## 3475 60.35313 12.91885 0.4335242  
## 3476 60.29963 12.91885 0.4338370  
## 3477 60.29963 12.89948 0.4341200  
## 3478 60.24612 12.89948 0.4345915  
## 3479 60.13911 12.86074 0.4349522  
## 3480 60.13911 12.84137 0.4351266  
## 3481 60.08561 12.84137 0.4352548  
## 3482 60.08561 12.82200 0.4352991  
## 3483 60.08561 12.80263 0.4354336  
## 3484 60.08561 12.78327 0.4355836  
## 3485 60.08561 12.76390 0.4356358  
## 3486 60.03210 12.76390 0.4357630  
## 3487 60.03210 12.74453 0.4359331

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4, percent=TRUE)

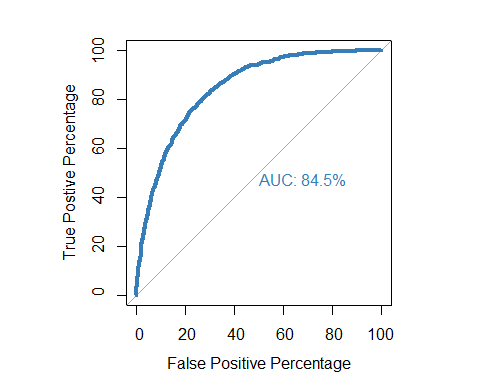
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 84.54%

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4, percent=TRUE, print.auc=TRUE)

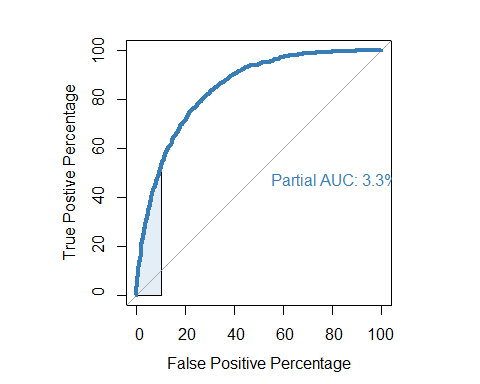
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4, print.auc = TRUE)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 84.54%

roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4, percent=TRUE, print.auc=TRUE, partial.auc=c(100, 90), auc.polygon = TRUE, auc.polygon.col = "#377eb822", print.auc.x=45)

## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases



##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4, print.auc = TRUE, partial.auc = c(100, 90), auc.polygon = TRUE, auc.polygon.col = "#377eb822", print.auc.x = 45)  
##   
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Partial area under the curve (specificity 100%-90%): 3.256%

# Lets do two roc plots to understand which model is better  
roc(tablechurn$Churn, logistic\_simple$fitted.values, plot=TRUE, legacy.axes=TRUE, percent=TRUE, xlab="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8", lwd=4, print.auc=TRUE)

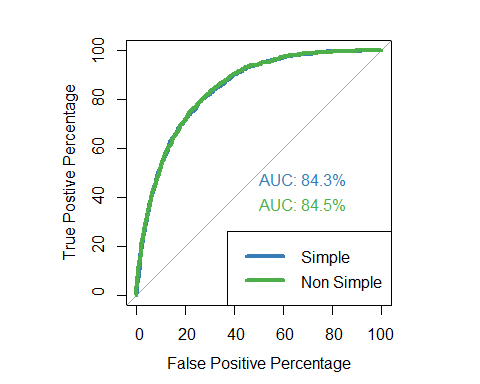
## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases

##   
## Call:  
## roc.default(response = tablechurn$Churn, predictor = logistic\_simple$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage", ylab = "True Postive Percentage", col = "#377eb8", lwd = 4, print.auc = TRUE)  
##   
## Data: logistic\_simple$fitted.values in 5163 controls (tablechurn$Churn No) < 1869 cases (tablechurn$Churn Yes).  
## Area under the curve: 84.34%

# Lets add the other graph  
plot.roc(tablechurn$Churn, logistic$fitted.values, percent=TRUE, col="#4daf4a", lwd=4, print.auc=TRUE, add=TRUE, print.auc.y=40)

## Setting levels: control = No, case = Yes  
## Setting direction: controls < cases

legend("bottomright", legend=c("Simple", "Non Simple"), col=c("#377eb8", "#4daf4a"), lwd=4) # Make it user friendly



# reset the par area back to the default setting  
par(pty='m')