ECON-3105-logit\_regression.R

surface

2021-12-03

rm(list=ls())  
cat("\014")

dev.off()

## null device   
## 1

getwd()

## [1] "C:/Users/surface/Desktop"

setwd("C:/Users/surface/Desktop/ECON 3105/Hotel Bookings-20211126")  
  
# 1: Load the data  
library(foreign)  
library(dplyr)

##   
## 载入程辑包：'dplyr'

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

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

library(ROCR) # For evaluation metrics  
library(caret) # For confusion matrix

## 载入需要的程辑包：ggplot2

## 载入需要的程辑包：lattice

library(ggplot2)  
library(lattice)  
  
  
hotel\_bookings = read.csv("hotel\_bookings.csv")  
colnames(hotel\_bookings)

## [1] "hotel" "is\_canceled"   
## [3] "lead\_time" "arrival\_date\_year"   
## [5] "arrival\_date\_month" "arrival\_date\_week\_number"   
## [7] "arrival\_date\_day\_of\_month" "stays\_in\_weekend\_nights"   
## [9] "stays\_in\_week\_nights" "adults"   
## [11] "children" "babies"   
## [13] "meal" "country"   
## [15] "market\_segment" "distribution\_channel"   
## [17] "is\_repeated\_guest" "previous\_cancellations"   
## [19] "previous\_bookings\_not\_canceled" "reserved\_room\_type"   
## [21] "assigned\_room\_type" "booking\_changes"   
## [23] "deposit\_type" "agent"   
## [25] "company" "days\_in\_waiting\_list"   
## [27] "customer\_type" "adr"   
## [29] "required\_car\_parking\_spaces" "total\_of\_special\_requests"   
## [31] "reservation\_status" "reservation\_status\_date"

str(hotel\_bookings)

## 'data.frame': 119390 obs. of 32 variables:  
## $ hotel : chr "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" ...  
## $ is\_canceled : int 0 0 0 0 0 0 0 0 1 1 ...  
## $ lead\_time : int 342 737 7 13 14 14 0 9 85 75 ...  
## $ arrival\_date\_year : int 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 ...  
## $ arrival\_date\_month : chr "July" "July" "July" "July" ...  
## $ arrival\_date\_week\_number : int 27 27 27 27 27 27 27 27 27 27 ...  
## $ arrival\_date\_day\_of\_month : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ stays\_in\_weekend\_nights : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ stays\_in\_week\_nights : int 0 0 1 1 2 2 2 2 3 3 ...  
## $ adults : int 2 2 1 1 2 2 2 2 2 2 ...  
## $ children : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ babies : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ meal : chr "BB" "BB" "BB" "BB" ...  
## $ country : chr "PRT" "PRT" "GBR" "GBR" ...  
## $ market\_segment : chr "Direct" "Direct" "Direct" "Corporate" ...  
## $ distribution\_channel : chr "Direct" "Direct" "Direct" "Corporate" ...  
## $ is\_repeated\_guest : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ previous\_cancellations : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ previous\_bookings\_not\_canceled: int 0 0 0 0 0 0 0 0 0 0 ...  
## $ reserved\_room\_type : chr "C" "C" "A" "A" ...  
## $ assigned\_room\_type : chr "C" "C" "C" "A" ...  
## $ booking\_changes : int 3 4 0 0 0 0 0 0 0 0 ...  
## $ deposit\_type : chr "No Deposit" "No Deposit" "No Deposit" "No Deposit" ...  
## $ agent : chr "NULL" "NULL" "NULL" "304" ...  
## $ company : chr "NULL" "NULL" "NULL" "NULL" ...  
## $ days\_in\_waiting\_list : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ customer\_type : chr "Transient" "Transient" "Transient" "Transient" ...  
## $ adr : num 0 0 75 75 98 ...  
## $ required\_car\_parking\_spaces : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ total\_of\_special\_requests : int 0 0 0 0 1 1 0 1 1 0 ...  
## $ reservation\_status : chr "Check-Out" "Check-Out" "Check-Out" "Check-Out" ...  
## $ reservation\_status\_date : chr "2015/7/1" "2015/7/1" "2015/7/2" "2015/7/2" ...

unique(hotel\_bookings$is\_canceled)

## [1] 0 1

# 2: Data pre-processing  
hotel\_bookings<-hotel\_bookings%>%  
 mutate(  
 hotel=as.factor(hotel),   
 is\_canceled=as.factor(is\_canceled),  
 meal=as.factor(meal),  
 country=as.factor(country),  
 market\_segment=as.factor(market\_segment),  
 distribution\_channel=as.factor(distribution\_channel),  
 is\_repeated\_guest=as.factor(is\_repeated\_guest),  
 reserved\_room\_type=as.factor(reserved\_room\_type),  
 assigned\_room\_type=as.factor(assigned\_room\_type),  
 deposit\_type=as.factor(deposit\_type),  
 customer\_type=as.factor(customer\_type),  
 reservation\_status=as.factor(reservation\_status),  
 agent=as.factor(agent),  
 company=as.factor(company),  
 arrival\_date\_day\_of\_month=as.factor(arrival\_date\_day\_of\_month),  
 arrival\_date\_month=as.factor(arrival\_date\_month),  
 arrival\_date\_year=as.factor(arrival\_date\_year)  
   
 )  
data = transform(hotel\_bookings, is\_canceled = ifelse(is\_canceled == '1', 1, 0))  
head(data)

## hotel is\_canceled lead\_time arrival\_date\_year arrival\_date\_month  
## 1 Resort Hotel 0 342 2015 July  
## 2 Resort Hotel 0 737 2015 July  
## 3 Resort Hotel 0 7 2015 July  
## 4 Resort Hotel 0 13 2015 July  
## 5 Resort Hotel 0 14 2015 July  
## 6 Resort Hotel 0 14 2015 July  
## arrival\_date\_week\_number arrival\_date\_day\_of\_month stays\_in\_weekend\_nights  
## 1 27 1 0  
## 2 27 1 0  
## 3 27 1 0  
## 4 27 1 0  
## 5 27 1 0  
## 6 27 1 0  
## stays\_in\_week\_nights adults children babies meal country market\_segment  
## 1 0 2 0 0 BB PRT Direct  
## 2 0 2 0 0 BB PRT Direct  
## 3 1 1 0 0 BB GBR Direct  
## 4 1 1 0 0 BB GBR Corporate  
## 5 2 2 0 0 BB GBR Online TA  
## 6 2 2 0 0 BB GBR Online TA  
## distribution\_channel is\_repeated\_guest previous\_cancellations  
## 1 Direct 0 0  
## 2 Direct 0 0  
## 3 Direct 0 0  
## 4 Corporate 0 0  
## 5 TA/TO 0 0  
## 6 TA/TO 0 0  
## previous\_bookings\_not\_canceled reserved\_room\_type assigned\_room\_type  
## 1 0 C C  
## 2 0 C C  
## 3 0 A C  
## 4 0 A A  
## 5 0 A A  
## 6 0 A A  
## booking\_changes deposit\_type agent company days\_in\_waiting\_list customer\_type  
## 1 3 No Deposit NULL NULL 0 Transient  
## 2 4 No Deposit NULL NULL 0 Transient  
## 3 0 No Deposit NULL NULL 0 Transient  
## 4 0 No Deposit 304 NULL 0 Transient  
## 5 0 No Deposit 240 NULL 0 Transient  
## 6 0 No Deposit 240 NULL 0 Transient  
## adr required\_car\_parking\_spaces total\_of\_special\_requests reservation\_status  
## 1 0 0 0 Check-Out  
## 2 0 0 0 Check-Out  
## 3 75 0 0 Check-Out  
## 4 75 0 0 Check-Out  
## 5 98 0 1 Check-Out  
## 6 98 0 1 Check-Out  
## reservation\_status\_date  
## 1 2015/7/1  
## 2 2015/7/1  
## 3 2015/7/2  
## 4 2015/7/2  
## 5 2015/7/3  
## 6 2015/7/3

colnames(data)

## [1] "hotel" "is\_canceled"   
## [3] "lead\_time" "arrival\_date\_year"   
## [5] "arrival\_date\_month" "arrival\_date\_week\_number"   
## [7] "arrival\_date\_day\_of\_month" "stays\_in\_weekend\_nights"   
## [9] "stays\_in\_week\_nights" "adults"   
## [11] "children" "babies"   
## [13] "meal" "country"   
## [15] "market\_segment" "distribution\_channel"   
## [17] "is\_repeated\_guest" "previous\_cancellations"   
## [19] "previous\_bookings\_not\_canceled" "reserved\_room\_type"   
## [21] "assigned\_room\_type" "booking\_changes"   
## [23] "deposit\_type" "agent"   
## [25] "company" "days\_in\_waiting\_list"   
## [27] "customer\_type" "adr"   
## [29] "required\_car\_parking\_spaces" "total\_of\_special\_requests"   
## [31] "reservation\_status" "reservation\_status\_date"

str(data)

## 'data.frame': 119390 obs. of 32 variables:  
## $ hotel : Factor w/ 2 levels "City Hotel","Resort Hotel": 2 2 2 2 2 2 2 2 2 2 ...  
## $ is\_canceled : num 0 0 0 0 0 0 0 0 1 1 ...  
## $ lead\_time : int 342 737 7 13 14 14 0 9 85 75 ...  
## $ arrival\_date\_year : Factor w/ 3 levels "2015","2016",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ arrival\_date\_month : Factor w/ 12 levels "April","August",..: 6 6 6 6 6 6 6 6 6 6 ...  
## $ arrival\_date\_week\_number : int 27 27 27 27 27 27 27 27 27 27 ...  
## $ arrival\_date\_day\_of\_month : Factor w/ 31 levels "1","2","3","4",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ stays\_in\_weekend\_nights : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ stays\_in\_week\_nights : int 0 0 1 1 2 2 2 2 3 3 ...  
## $ adults : int 2 2 1 1 2 2 2 2 2 2 ...  
## $ children : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ babies : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ meal : Factor w/ 5 levels "BB","FB","HB",..: 1 1 1 1 1 1 1 2 1 3 ...  
## $ country : Factor w/ 178 levels "ABW","AGO","AIA",..: 137 137 60 60 60 60 137 137 137 137 ...  
## $ market\_segment : Factor w/ 8 levels "Aviation","Complementary",..: 4 4 4 3 7 7 4 4 7 6 ...  
## $ distribution\_channel : Factor w/ 5 levels "Corporate","Direct",..: 2 2 2 1 4 4 2 2 4 4 ...  
## $ is\_repeated\_guest : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 1 1 1 ...  
## $ previous\_cancellations : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ previous\_bookings\_not\_canceled: int 0 0 0 0 0 0 0 0 0 0 ...  
## $ reserved\_room\_type : Factor w/ 10 levels "A","B","C","D",..: 3 3 1 1 1 1 3 3 1 4 ...  
## $ assigned\_room\_type : Factor w/ 12 levels "A","B","C","D",..: 3 3 3 1 1 1 3 3 1 4 ...  
## $ booking\_changes : int 3 4 0 0 0 0 0 0 0 0 ...  
## $ deposit\_type : Factor w/ 3 levels "No Deposit","Non Refund",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ agent : Factor w/ 334 levels "1","10","103",..: 334 334 334 157 103 103 334 156 103 40 ...  
## $ company : Factor w/ 353 levels "10","100","101",..: 353 353 353 353 353 353 353 353 353 353 ...  
## $ days\_in\_waiting\_list : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ customer\_type : Factor w/ 4 levels "Contract","Group",..: 3 3 3 3 3 3 3 3 3 3 ...  
## $ adr : num 0 0 75 75 98 ...  
## $ required\_car\_parking\_spaces : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ total\_of\_special\_requests : int 0 0 0 0 1 1 0 1 1 0 ...  
## $ reservation\_status : Factor w/ 3 levels "Canceled","Check-Out",..: 2 2 2 2 2 2 2 2 1 1 ...  
## $ reservation\_status\_date : chr "2015/7/1" "2015/7/1" "2015/7/2" "2015/7/2" ...

class(data$is\_canceled)

## [1] "numeric"

data = sapply(data, as.numeric)

## Warning in lapply(X = X, FUN = FUN, ...): 强制改变过程中产生了NA

head(data)

## hotel is\_canceled lead\_time arrival\_date\_year arrival\_date\_month  
## [1,] 2 0 342 1 6  
## [2,] 2 0 737 1 6  
## [3,] 2 0 7 1 6  
## [4,] 2 0 13 1 6  
## [5,] 2 0 14 1 6  
## [6,] 2 0 14 1 6  
## arrival\_date\_week\_number arrival\_date\_day\_of\_month stays\_in\_weekend\_nights  
## [1,] 27 1 0  
## [2,] 27 1 0  
## [3,] 27 1 0  
## [4,] 27 1 0  
## [5,] 27 1 0  
## [6,] 27 1 0  
## stays\_in\_week\_nights adults children babies meal country market\_segment  
## [1,] 0 2 0 0 1 137 4  
## [2,] 0 2 0 0 1 137 4  
## [3,] 1 1 0 0 1 60 4  
## [4,] 1 1 0 0 1 60 3  
## [5,] 2 2 0 0 1 60 7  
## [6,] 2 2 0 0 1 60 7  
## distribution\_channel is\_repeated\_guest previous\_cancellations  
## [1,] 2 1 0  
## [2,] 2 1 0  
## [3,] 2 1 0  
## [4,] 1 1 0  
## [5,] 4 1 0  
## [6,] 4 1 0  
## previous\_bookings\_not\_canceled reserved\_room\_type assigned\_room\_type  
## [1,] 0 3 3  
## [2,] 0 3 3  
## [3,] 0 1 3  
## [4,] 0 1 1  
## [5,] 0 1 1  
## [6,] 0 1 1  
## booking\_changes deposit\_type agent company days\_in\_waiting\_list  
## [1,] 3 1 334 353 0  
## [2,] 4 1 334 353 0  
## [3,] 0 1 334 353 0  
## [4,] 0 1 157 353 0  
## [5,] 0 1 103 353 0  
## [6,] 0 1 103 353 0  
## customer\_type adr required\_car\_parking\_spaces total\_of\_special\_requests  
## [1,] 3 0 0 0  
## [2,] 3 0 0 0  
## [3,] 3 75 0 0  
## [4,] 3 75 0 0  
## [5,] 3 98 0 1  
## [6,] 3 98 0 1  
## reservation\_status reservation\_status\_date  
## [1,] 2 NA  
## [2,] 2 NA  
## [3,] 2 NA  
## [4,] 2 NA  
## [5,] 2 NA  
## [6,] 2 NA

class(data)

## [1] "matrix" "array"

data = as.data.frame(data)   
head(data)

## hotel is\_canceled lead\_time arrival\_date\_year arrival\_date\_month  
## 1 2 0 342 1 6  
## 2 2 0 737 1 6  
## 3 2 0 7 1 6  
## 4 2 0 13 1 6  
## 5 2 0 14 1 6  
## 6 2 0 14 1 6  
## arrival\_date\_week\_number arrival\_date\_day\_of\_month stays\_in\_weekend\_nights  
## 1 27 1 0  
## 2 27 1 0  
## 3 27 1 0  
## 4 27 1 0  
## 5 27 1 0  
## 6 27 1 0  
## stays\_in\_week\_nights adults children babies meal country market\_segment  
## 1 0 2 0 0 1 137 4  
## 2 0 2 0 0 1 137 4  
## 3 1 1 0 0 1 60 4  
## 4 1 1 0 0 1 60 3  
## 5 2 2 0 0 1 60 7  
## 6 2 2 0 0 1 60 7  
## distribution\_channel is\_repeated\_guest previous\_cancellations  
## 1 2 1 0  
## 2 2 1 0  
## 3 2 1 0  
## 4 1 1 0  
## 5 4 1 0  
## 6 4 1 0  
## previous\_bookings\_not\_canceled reserved\_room\_type assigned\_room\_type  
## 1 0 3 3  
## 2 0 3 3  
## 3 0 1 3  
## 4 0 1 1  
## 5 0 1 1  
## 6 0 1 1  
## booking\_changes deposit\_type agent company days\_in\_waiting\_list customer\_type  
## 1 3 1 334 353 0 3  
## 2 4 1 334 353 0 3  
## 3 0 1 334 353 0 3  
## 4 0 1 157 353 0 3  
## 5 0 1 103 353 0 3  
## 6 0 1 103 353 0 3  
## adr required\_car\_parking\_spaces total\_of\_special\_requests reservation\_status  
## 1 0 0 0 2  
## 2 0 0 0 2  
## 3 75 0 0 2  
## 4 75 0 0 2  
## 5 98 0 1 2  
## 6 98 0 1 2  
## reservation\_status\_date  
## 1 NA  
## 2 NA  
## 3 NA  
## 4 NA  
## 5 NA  
## 6 NA

data<-subset(data,data$adr<4000)  
  
# 3: Create the training and test data   
  
set.seed(1)  
a = seq(1,nrow(data),1)   
ind = sample(a, floor(nrow(data)\*0.7), replace=FALSE)   
train = data[ind,]  
test = data[-ind,]  
# 4: Train the logistic regression model using glm() function  
  
## (4a) a Logistic regression Estimation  
m1 = glm(is\_canceled~hotel+lead\_time+adults+children+babies+meal+market\_segment+distribution\_channel+  
 is\_repeated\_guest+previous\_cancellations+previous\_bookings\_not\_canceled+reserved\_room\_type+  
 deposit\_type+days\_in\_waiting\_list+customer\_type+adr+required\_car\_parking\_spaces,   
 data=train,  
 family=binomial(link ='logit')  
)

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

summary(m1)#There might be some outliers in the dataset but I don't know how to get rid of them...

##   
## Call:  
## glm(formula = is\_canceled ~ hotel + lead\_time + adults + children +   
## babies + meal + market\_segment + distribution\_channel + is\_repeated\_guest +   
## previous\_cancellations + previous\_bookings\_not\_canceled +   
## reserved\_room\_type + deposit\_type + days\_in\_waiting\_list +   
## customer\_type + adr + required\_car\_parking\_spaces, family = binomial(link = "logit"),   
## data = train)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -7.5509 -0.8404 -0.5526 0.3215 5.9163   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -7.534e+00 1.621e-01 -46.471 < 2e-16 \*\*\*  
## hotel -5.578e-02 1.990e-02 -2.803 0.005057 \*\*   
## lead\_time 2.717e-03 9.481e-05 28.652 < 2e-16 \*\*\*  
## adults 8.642e-02 1.662e-02 5.200 1.99e-07 \*\*\*  
## children 1.229e-01 2.166e-02 5.676 1.38e-08 \*\*\*  
## babies -3.854e-01 1.066e-01 -3.616 0.000299 \*\*\*  
## meal 2.137e-02 7.857e-03 2.719 0.006543 \*\*   
## market\_segment 4.175e-01 1.405e-02 29.714 < 2e-16 \*\*\*  
## distribution\_channel -2.224e-01 1.923e-02 -11.562 < 2e-16 \*\*\*  
## is\_repeated\_guest -5.587e-01 9.198e-02 -6.074 1.25e-09 \*\*\*  
## previous\_cancellations 2.732e+00 6.898e-02 39.605 < 2e-16 \*\*\*  
## previous\_bookings\_not\_canceled -5.386e-01 3.041e-02 -17.712 < 2e-16 \*\*\*  
## reserved\_room\_type 2.020e-02 6.162e-03 3.278 0.001046 \*\*   
## deposit\_type 4.733e+00 7.299e-02 64.845 < 2e-16 \*\*\*  
## days\_in\_waiting\_list -5.853e-04 5.516e-04 -1.061 0.288685   
## customer\_type -3.260e-02 1.603e-02 -2.033 0.042051 \*   
## adr 3.645e-03 2.166e-04 16.827 < 2e-16 \*\*\*  
## required\_car\_parking\_spaces -4.364e+01 8.250e+02 -0.053 0.957814   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 110174 on 83567 degrees of freedom  
## Residual deviance: 79129 on 83550 degrees of freedom  
## (因为不存在，4个观察量被删除了)  
## AIC: 79165  
##   
## Number of Fisher Scoring iterations: 11

help(glm)

## starting httpd help server ...

## done

## (4b) Check the predicted probability on train   
fit = m1$fitted.values  
head(fit)

## 24388 59522 43307 69587 11571 25173   
## 2.220446e-16 4.170031e-01 2.526659e-01 9.760007e-01 4.446608e-01 2.220446e-16

m1.fit = predict(m1, data=train, type="link")   
head(m1.fit)

## 24388 59522 43307 69587 11571 25173   
## -45.0200817 -0.3350882 -1.0844444 3.7054405 -0.2222674 -44.4226583

head(train$is\_canceled)

## [1] 0 1 0 1 1 0

## (4c) Check predicted log-odds on training data  
m1.logodd = predict(m1, data=train, type="link")   
head(m1.logodd)

## 24388 59522 43307 69587 11571 25173   
## -45.0200817 -0.3350882 -1.0844444 3.7054405 -0.2222674 -44.4226583

## accuracy on traning data  
m1.class = as.numeric(m1.logodd>0)   
m1.acc = mean(as.numeric(train$is\_canceled == m1.class))#warning message might be due to 4 outliers as the difference between two datasets is 4

## Warning in train$is\_canceled == m1.class: 长的对象长度不是短的对象长度的整倍数

m1.acc

## [1] 0.6613579

# 5: Prediction on test data   
# (5a) predict the log-odds ratio,calculate the accuracy rate  
m1.logodd\_1 = predict(m1, newdata=test, type="link")   
  
m1.class\_1 = as.numeric(m1.logodd\_1>0)   
m1.class\_1

## [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [37] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [73] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [109] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [145] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0  
## [181] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [217] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [253] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0  
## [289] 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [325] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0  
## [361] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0  
## [397] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [433] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [469] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [505] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [541] 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [577] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [613] 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0  
## [649] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 1 1 1 1 1 0 0 0 0 0  
## [685] 0 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [721] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [757] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1  
## [793] 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1 1 0 0 0 0 0 0  
## [829] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [865] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [901] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
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m1.correct\_1 = sum(as.numeric(test$is\_canceled == m1.class\_1))   
  
m1.acc\_1 = mean(as.numeric(test$is\_canceled == m1.class\_1))   
m1.acc\_1

## [1] 0.7723986

# 6 plot graphs  
  
class\_log = function(x){ifelse(m1.logodd\_1 > x, 1, 0)}  
predicted\_log = class\_log(0.5)  
is\_canceled=test$is\_canceled  
as.factor(is\_canceled)

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## Levels: 0 1

CF <- confusionMatrix(factor(predicted\_log), factor(is\_canceled) )  
CF

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 22464 8217  
## 1 91 5045  
##   
## Accuracy : 0.768   
## 95% CI : (0.7636, 0.7724)  
## No Information Rate : 0.6297   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.4307   
##   
## Mcnemar's Test P-Value : < 2.2e-16   
##   
## Sensitivity : 0.9960   
## Specificity : 0.3804   
## Pos Pred Value : 0.7322   
## Neg Pred Value : 0.9823   
## Prevalence : 0.6297   
## Detection Rate : 0.6272   
## Detection Prevalence : 0.8566   
## Balanced Accuracy : 0.6882   
##   
## 'Positive' Class : 0   
##

CF$overall

## Accuracy Kappa AccuracyLower AccuracyUpper AccuracyNull   
## 0.7680431 0.4307474 0.7636363 0.7724064 0.6297289   
## AccuracyPValue McnemarPValue   
## 0.0000000 0.0000000

predict\_log <- prediction(m1.logodd\_1, is\_canceled)   
acc\_log = performance(predict\_log,'acc')  
plot(acc\_log, col='deeppink', lwd=2)  
ROC\_log <- performance(predict\_log, "tpr", "fpr")   
plot(ROC\_log, col= "deeppink",lwd=2)  
abline(0,1, col = "black")  
title("ROC curves")  
auc\_log = performance(predict\_log,"auc")  
auc\_log@y.values

## [[1]]  
## [1] 0.8139273

crc\_log <- performance(predict\_log,measure="tpr",x.measure='rpp')  
plot(crc\_log, col='deeppink', lwd=2)  
abline(0,1, col = "black")  
lift\_log = performance(predict\_log,measure="lift", x.measure="rpp")  
plot(lift\_log, col='deeppink', lwd=2)  
abline(1,0, col = "black")