Hoja de Trabajo 05

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3/24/2020

## Objetivo

Predecir los precios con el algoritmo de Naives Bayes

## Warning: package 'caret' was built under R version 3.6.3

## Loading required package: lattice

## Loading required package: ggplot2

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:plyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

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

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

## Selección de variables

Se seleccionarán variables que consideramos importantes para la decisión del precio de una casa. Se usa la misma semilla 123 para repetir el conjunto de entrenamiento y de prueba

set.seed(123)  
 datos <- read.csv("train.csv", stringsAsFactors = FALSE)  
   
trainImportantes <- datos[c("MSSubClass","LotFrontage","LotArea","OverallCond","YearBuilt","YearRemodAdd","X2ndFlrSF","FullBath","TotRmsAbvGrd","GarageCars","SalePrice")]  
trainImportantes[is.na(trainImportantes)]<-0

## Clusters

Se harán 3 clusters (probados en hojas anteriores) para crear la variable categórica Con el Clustering se llegó a una variable categórica llamada grupos, esta variable se separa en barato, intermedio y caro. Barato tuvo el rango de 34,900 a 173000 Intermedio el rango de 173500 a 294000 Caro el rango de 295000 a 755000

km<-kmeans(trainImportantes,3)  
trainImportantes$grupo<-km$cluster  
trainImportantes$grupo <- mapvalues(trainImportantes$grupo, c(1,2,3), c("Intermedio","Barato","caro"))

Se harán la división 70% para train y 30% para test

porcentaje<-0.7  
 corte <- sample(nrow(trainImportantes),nrow(trainImportantes)\*porcentaje)  
 train<-trainImportantes[corte,]  
 test<-trainImportantes[-corte,]

### Se realiza el calculo de naives bayes

modelo<-naiveBayes(as.factor(grupo)~.,data=trainImportantes)

### Matriz de confusion

Como se puede observar de 235 casas baratas acertó en 220 y falló diciendo que 1 es cara y 14 son intermedias. Como se puede observar de 42 casas caras acertó en 34 y no falló diciendo que alguna es barata y falló con 8 que son intermedias. Como se puede observar de 162 casas intermedias acertó en 143 y falló diciendo que 2 son caras y 17 que son intermedias. El modelo tuvo un 0.90 de Accurancy con 95% de índice de confianza puede ondular de 0.87 a 0.93. Analizando estos resultados se puede apreciar que solo hay un error del tipo que una casa sea barata y el modelo haya predicho que sea cara, y no hay ni uno que diga que sea barata cuando realmente es cara esto hace muy bueno el modelo. Los errores de intermedios son más comunes ya que está en medio de caro y barato, pero igual no fue muchos errores. Tiene una sensivity de 0.92 con las casas baratas y 0.918 con las caras. Con un Specifity de 0.92 para las baratas, 0.93 para las intermedias y 0.98 para las caras.

predBayes<-predict(modelo, newdata = test[,1:11])  
 confusionMatrix(table(predBayes,test$grupo))

## Confusion Matrix and Statistics  
##   
##   
## predBayes Barato caro Intermedio  
## Barato 220 1 14  
## caro 0 34 8  
## Intermedio 17 2 143  
##   
## Overall Statistics  
##   
## Accuracy : 0.9043   
## 95% CI : (0.8729, 0.9302)  
## No Information Rate : 0.5399   
## P-Value [Acc > NIR] : <2e-16   
##   
## Kappa : 0.8304   
##   
## Mcnemar's Test P-Value : 0.18   
##   
## Statistics by Class:  
##   
## Class: Barato Class: caro Class: Intermedio  
## Sensitivity 0.9283 0.91892 0.8667  
## Specificity 0.9257 0.98010 0.9307  
## Pos Pred Value 0.9362 0.80952 0.8827  
## Neg Pred Value 0.9167 0.99244 0.9206  
## Prevalence 0.5399 0.08428 0.3759  
## Detection Rate 0.5011 0.07745 0.3257  
## Detection Prevalence 0.5353 0.09567 0.3690  
## Balanced Accuracy 0.9270 0.94951 0.8987

Se concluye que el modelo no tiene overfitting debido a que se ajustó bien con los datos de test como se habló previamente.

## Cross Validation

ct<-trainControl(method = "cv", train,number=10, verboseIter=T)

## Warning in if (!is.na(repeats) & !(method %in% c("repeatedcv", "adaptive\_cv")))  
## warning("`repeats` has no meaning for this resampling method.", : la condición  
## tiene longitud > 1 y sólo el primer elemento será usado

## Warning: `repeats` has no meaning for this resampling method.

modeloCaret<-train(grupo~.,data=trainImportantes,method="nb",trControl = ct)

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

## - Fold01: usekernel=FALSE, fL=0, adjust=1   
## + Fold02: usekernel= TRUE, fL=0, adjust=1

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

## - Fold02: usekernel= TRUE, fL=0, adjust=1   
## + Fold02: usekernel=FALSE, fL=0, adjust=1

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

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

## - Fold02: usekernel=FALSE, fL=0, adjust=1   
## + Fold03: usekernel= TRUE, fL=0, adjust=1

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

## - Fold03: usekernel= TRUE, fL=0, adjust=1   
## + Fold03: usekernel=FALSE, fL=0, adjust=1

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

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

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

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

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

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

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

## - Fold03: usekernel=FALSE, fL=0, adjust=1   
## + Fold04: usekernel= TRUE, fL=0, adjust=1

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

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

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

## - Fold04: usekernel= TRUE, fL=0, adjust=1   
## + Fold04: usekernel=FALSE, fL=0, adjust=1

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

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

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

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

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

## - Fold04: usekernel=FALSE, fL=0, adjust=1   
## + Fold05: usekernel= TRUE, fL=0, adjust=1

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

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

## - Fold05: usekernel= TRUE, fL=0, adjust=1   
## + Fold05: usekernel=FALSE, fL=0, adjust=1

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

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

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

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

## - Fold05: usekernel=FALSE, fL=0, adjust=1   
## + Fold06: usekernel= TRUE, fL=0, adjust=1

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

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

## - Fold06: usekernel= TRUE, fL=0, adjust=1   
## + Fold06: usekernel=FALSE, fL=0, adjust=1

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

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

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

## - Fold06: usekernel=FALSE, fL=0, adjust=1   
## + Fold07: usekernel= TRUE, fL=0, adjust=1

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

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

## - Fold07: usekernel= TRUE, fL=0, adjust=1   
## + Fold07: usekernel=FALSE, fL=0, adjust=1

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

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

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

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

## - Fold07: usekernel=FALSE, fL=0, adjust=1   
## + Fold08: usekernel= TRUE, fL=0, adjust=1

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

## - Fold08: usekernel= TRUE, fL=0, adjust=1   
## + Fold08: usekernel=FALSE, fL=0, adjust=1

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

## - Fold08: usekernel=FALSE, fL=0, adjust=1   
## + Fold09: usekernel= TRUE, fL=0, adjust=1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## - Fold09: usekernel= TRUE, fL=0, adjust=1   
## + Fold09: usekernel=FALSE, fL=0, adjust=1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## - Fold09: usekernel=FALSE, fL=0, adjust=1   
## + Fold10: usekernel= TRUE, fL=0, adjust=1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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## - Fold10: usekernel= TRUE, fL=0, adjust=1   
## + Fold10: usekernel=FALSE, fL=0, adjust=1

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

## - Fold10: usekernel=FALSE, fL=0, adjust=1   
## Aggregating results  
## Selecting tuning parameters  
## Fitting fL = 0, usekernel = TRUE, adjust = 1 on full training set

El modelo con validación cruzada tuvo un mejor Accurancy con un 0.94 sin embargo tuvo un poco más de problemas con el caro y barato como se verá a continuación.

Como se puede observar de 231 casas baratas acertó en 223 y falló diciendo que 6 son caras y 2 son intermedias. Como se puede observar de 174 casas caras acertó en 158 y falló diciendo que 14 son baratas y falló con 2 que son intermedias. Como se puede observar de 34 casas intermedias acertó en 33 y no falló con las baratas y 1 cara.

El modelo tuvo un 0.94 de Accurancy con 95% de índice de confianza puede ondular de 0.91 a 0.96. Analizando estos resultados se puede apreciar que tuvo más problemas colocando alguna casa cara como barata o viceversa, sin embargo, le pegó a una gran cantidad de casas de manera correcta. Este modelo tuvo 0.98 de Specificity para las casas caras y 0.92 para las baratas teniendo buen balance para predecir.

### Matriz de confusion CV

prediccionCaret<-predict(modeloCaret,newdata = test[,1:11])

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confusionMatrix(table(prediccionCaret,test$grupo))

## Confusion Matrix and Statistics  
##   
##   
## prediccionCaret Barato caro Intermedio  
## Barato 223 2 6  
## caro 0 33 1  
## Intermedio 14 2 158  
##   
## Overall Statistics  
##   
## Accuracy : 0.9431   
## 95% CI : (0.9171, 0.9628)  
## No Information Rate : 0.5399   
## P-Value [Acc > NIR] : <2e-16   
##   
## Kappa : 0.8984   
##   
## Mcnemar's Test P-Value : 0.1367   
##   
## Statistics by Class:  
##   
## Class: Barato Class: caro Class: Intermedio  
## Sensitivity 0.9409 0.89189 0.9576  
## Specificity 0.9604 0.99751 0.9416  
## Pos Pred Value 0.9654 0.97059 0.9080  
## Neg Pred Value 0.9327 0.99012 0.9736  
## Prevalence 0.5399 0.08428 0.3759  
## Detection Rate 0.5080 0.07517 0.3599  
## Detection Prevalence 0.5262 0.07745 0.3964  
## Balanced Accuracy 0.9507 0.94470 0.9496