Modelos de Regresión Lineal

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## Naive Bayes

Como primer paso para realizar el método de Naive Bayes se procederá con realizar el proceso de clustering que nos permite agrupar las casas en Bajo, Intermedio y Alto, y así obtener la variable respuesta:

datos<-read.csv("train.csv")  
  
data <-select(datos, GarageYrBlt, GrLivArea, X1stFlrSF, X2ndFlrSF, GarageCars, SalePrice)  
data <- na.omit(data)

cluster <- data  
km<-kmeans(data, 3)  
data$grupo<-km$cluster  
  
g1 <- data[data$grupo==1, ]  
g2 <- data[data$grupo==2, ]  
g3 <- data[data$grupo==3, ]  
  
summary(g1$SalePrice) # Intermedio

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 299800 318765 345000 375290 395048 755000

summary(g2$SalePrice) # Alto

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 179400 193500 216669 222378 245263 297000

summary(g3$SalePrice) # Bajo

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 35311 119500 138500 136279 156932 179200

data$grupo <- mapvalues(data$grupo, c(1,2,3), c("Intermedio","Alto","Bajo"))

Particionamos el dataset en test y train, pero poder realizar un proceso de entrenamiento (con train) y verificar el modelo (con test)

porcentaje<-0.7  
set.seed(123)  
  
corte <- sample(nrow(data), nrow(data) \* porcentaje)  
train <- data[corte, ]  
test <- data[-corte, ]

Ahora sí… creamos el modelo de Naive Bayes y observemos cómo rinde el modelo con la matriz de confusión:

modelo<-naiveBayes(as.factor(train$grupo)~., data=train)  
predBayes<-predict(modelo, newdata = test[, 1:6])  
confusionMatrix(table(predBayes, test$grupo))

## Confusion Matrix and Statistics  
##   
##   
## predBayes Alto Bajo Intermedio  
## Alto 135 12 3  
## Bajo 8 222 0  
## Intermedio 4 0 30  
##   
## Overall Statistics  
##   
## Accuracy : 0.9348   
## 95% CI : (0.9065, 0.9566)  
## No Information Rate : 0.5652   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.8816   
##   
## Mcnemar's Test P-Value : NA   
##   
## Statistics by Class:  
##   
## Class: Alto Class: Bajo Class: Intermedio  
## Sensitivity 0.9184 0.9487 0.90909  
## Specificity 0.9438 0.9556 0.98950  
## Pos Pred Value 0.9000 0.9652 0.88235  
## Neg Pred Value 0.9545 0.9348 0.99211  
## Prevalence 0.3551 0.5652 0.07971  
## Detection Rate 0.3261 0.5362 0.07246  
## Detection Prevalence 0.3623 0.5556 0.08213  
## Balanced Accuracy 0.9311 0.9521 0.94930

La sensitividad y la especificidad son bastantes altas, pues, están por encima de 0.94 en promedio, por lo tanto, podemos decir que el Naive Bayes está acertando. Además, hay un accuracy del 93.5%, así que podemos asumir que no hay overfitting porque se ajustó bastante bien con el dataset de test. También, se confirma que el modelo está bastante bien pues en la matriz de confusión:

\* Las casas de alto precio se acertaron 30 de 34 = 88%.  
 \* Las casas de precio bajo se acertaron 222 de 230 = 96%.  
 \* Las casas de precio intermedio se certaron 135 de 150 = 90%.

Ahora, lo haremos con Cross Validation (con Caret):

ct <- trainControl(method = "cv", train[, 1:6], 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.", : the condition  
## has length > 1 and only the first element will be used

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

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

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

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## 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  
## observation 135

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## - 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  
## 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  
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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 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## - 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  
## 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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## observation 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## - 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  
## observation 1

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

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

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## - 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  
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## - 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  
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## - 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  
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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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## - 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  
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

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

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## - 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  
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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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## - 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 137

## - 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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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 135

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## - 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  
## 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  
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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 135

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 136

## - 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  
## 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  
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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 136

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 137

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 138

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
## observation 139

## - 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  
## 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  
## observation 3

## 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 20

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

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with  
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confusionMatrix(table(prediccionCaret, test$grupo))

## Confusion Matrix and Statistics  
##   
##   
## prediccionCaret Alto Bajo Intermedio  
## Alto 139 8 2  
## Bajo 5 226 0  
## Intermedio 3 0 31  
##   
## Overall Statistics  
##   
## Accuracy : 0.9565   
## 95% CI : (0.9322, 0.974)  
## No Information Rate : 0.5652   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.921   
##   
## Mcnemar's Test P-Value : NA   
##   
## Statistics by Class:  
##   
## Class: Alto Class: Bajo Class: Intermedio  
## Sensitivity 0.9456 0.9658 0.93939  
## Specificity 0.9625 0.9722 0.99213  
## Pos Pred Value 0.9329 0.9784 0.91176  
## Neg Pred Value 0.9698 0.9563 0.99474  
## Prevalence 0.3551 0.5652 0.07971  
## Detection Rate 0.3357 0.5459 0.07488  
## Detection Prevalence 0.3599 0.5580 0.08213  
## Balanced Accuracy 0.9541 0.9690 0.96576

En el proceso de Cross Validation, notamos que es ligeramente más certero que Naive Bayes, debido a:

\* Las casas de alto precio se acertaron 31 de 34 = 91%.  
 \* Las casas de precio bajo se acertaron 226 de 231 = 98%.  
 \* Las casas de precio intermedio se certaron 139 de 149 = 93%.

Todos están arriba del proceso anterior, además, se obtuvo un 0.96 de accuracy y el promedio de la sensitividad y la especificidad es del 0.96.