Linear Regression:

Logistic Regression:

<https://www.kaggle.com/code/jyotikumarrout/logistic-regression/data?select=binary.csv>

install.packages("caTools")

> #Load the libraries

> library(caTools)

>

> #Ingest the data

> setwd("C:/Users/Bholashankar/Downloads")

> myData = read.csv("binary (1).csv")

> myData

> #Split the data

> split = sample.split(myData, SplitRatio = 0.8)

> split

> train = subset(myData, split == "TRUE")

> test = subset(myData, split == "FALSE")

> #Munge the data (Wrnagle the data)

> myData$admit = as.factor(myData$admit)

> myData$rank = as.factor(myData$rank)

> #train the model using training data

> #use glm function

> #dependent variable is admit whereas independent variables are gpa and rank

> myModel = glm(admit~gpa+rank,data = train, family = 'binomial')

> summary((myModel))

> #Run the test data through the model

> res = predict(myModel,test,type = "response")

> res

> res = predict(myModel,train,type = "response")

> res

> #Validate the model

> #Confusion Matrix

> confmatrix = table(actual\_value = train$admit, predicted\_value = res>0.5)

> confmatrix

> (confmatrix[[1,1]] + confmatrix[[2,2]])/sum(confmatrix)