A researcher is interested in how covariates, such as GRE, GPA (grade and prestige of the undergraduate institution, influence admission into graduate school. The outcome variable, admit/don’t admit, is a binary variable.

**Description of the data**

Below is our data.

mydata <- **read.csv**("https://stats.idre.ucla.edu/stat/data/binary.csv")

*## view the first few rows of the data*

**head**(mydata)

## admit gre gpa rank

## 1 0 380 3.61 3

## 2 1 660 3.67 3

## 3 1 800 4.00 1

## 4 1 640 3.19 4

## 5 0 520 2.93 4

## 6 1 760 3.00 2

Source: <https://stats.oarc.ucla.edu/r/dae/logit-regression/>

Model and assumptions:

How to interpret the regression coefficients?

Likelihood

MLE:

Results:

myresult<- glm(admit ~ gre + gpa + factor(rank), data = mydata, family = "binomial")

myresult

summary(myresult)

objects(myresult)