script1.R

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# Installing dependency for reading excel files (run once)  
# install.packages('readxl')  
# install.packages('glm2')  
library(readxl)  
library(glm2)  
  
# Reading and performing logistic regression  
data1 <- read\_excel('./binary.xls')  
log\_model <- glm(admit ~ gre + gpa + rank, data = data1, family = binomial)  
  
# Summary of the logistic model  
summary(log\_model)

##   
## Call:  
## glm(formula = admit ~ gre + gpa + rank, family = binomial, data = data1)  
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -3.449549 1.132846 -3.045 0.00233 \*\*   
## gre 0.002294 0.001092 2.101 0.03564 \*   
## gpa 0.777014 0.327484 2.373 0.01766 \*   
## rank -0.560031 0.127137 -4.405 1.06e-05 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 499.98 on 399 degrees of freedom  
## Residual deviance: 459.44 on 396 degrees of freedom  
## AIC: 467.44  
##   
## Number of Fisher Scoring iterations: 4