Amr’s Code for Regressions

Here is the new code with explanations

data=read.csv(l[13])

model1= glm( Citalopram ~  Gender + RiskOfSuicide + Heart + Vascular + Haematopoietic + Eyes\_Ears\_Nose\_Throat\_Larynx + Gastrointestinal + Renal + Genitourinary + Musculoskeletal\_Integument + Neurological + Psychiatric\_Illness + Respiratory + Liver + Endocrine + Alcohol + Amphetamine + Cannibis + Opioid + Panic + Specific\_Phobia + Social\_Phobia + OCD + PTSD + Anxiety + Borderline\_Personality + Dependent\_Personality + Antisocial\_Personality + Paranoid\_Personality + Personality\_Disorder + Anorexia + Bulimia + Cocaine , data = data , family = binomial )

**## to view the coefficients of this model use**

coefs = as.matrix(summary(model1)$coefficients)

**## to find the significant terms use**

**## first get rid of the intercept**

coefs=coefs[-1,]

**## find the significant terms**

a=which(coefs[,4] <= 0.1 )

**## print the names of the significant coefficients**

if ( length(a) != 0 )print(rownames(coefs)[a])

**## now run a second regression involving the significant terms found above and the**

**## second interactions with all other variables (e.g. Endocrine)**

model2= glm( Citalopram ~   Endocrine:. , data = data , family = binomial )

**## to view the coefficients of the second model use**

coefs2 = as.matrix(summary(model2)$coefficients)

**## to find the significant terms use**

**## first get rid of the intercept**

coefs2=coefs2[-1,]

**## find the significant terms**

a=which(coefs2[,4] <= 0.1 )

print(a)