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#ls: http://www.ats.ucla.edu/stat/r/dae/logit.htm
library(aod)
library(ggplot2)
mydata <- read.csv("http://www.ats.ucla.edu/stat/data/binary.csv")
head(mydata)
summary(mydata)

mydata$rank <- factor(mydata$rank)
mylogit <- glm(admit ~ gre + gpa + rank, data = mydata, family = "binomial")
summary(mylogit)
wald.test(b = coef(mylogit), Sigma = vcov(mylogit), Terms = 4:6)
newdata1 <- with(mydata, data.frame(gre = mean(gre), gpa = mean(gpa), rank = factor(1:4)))
newdata1
cm <- table(mydata$admit, ifelse(fitted(mylogit)>0.5, 1, 0))
#ccr <- sum(diag(cm))/sum(cm)

require(np)
X <- data.frame(cbind(mydata$gre,mydata$gpa,mydata$rank))
y <- factor(mydata$admit)

bw <- npcdensbw(xdat=X, ydat=y, tol=.1, ftol=.1)
model.np <- npconmode(bws=bw)

summary(model.np)
## logistines
cm

### Kitas ###
#Internetas: http://ww2.coastal.edu/kingw/statistics/R-tutorials/logistic.html

file = "http://ww2.coastal.edu/kingw/statistics/R-tutorials/text/gorilla.csv"
read.csv(file) -> gorilla

gorilla = data.frame(rep(c(0,1),c(30,19)),
  c(126,118,61,69,57,78,114,81,73,93,116,156,90,120,99,113,103,123,
    86,99,102,120,128,100,95,80,98,111,101,102,100,112,82,72,72,
    89,108,88,116,100,99,93,100,110,100,106,115,120,97),
  c(86,76,66,48,59,64,61,85,57,50,92,70,66,73,68,110,78,61,65,
    77,77,74,100,89,61,55,92,90,85,78,66,78,84,63,65,71,46,70,
    83,69,70,63,93,76,83,71,112,87,82),
  c(64,54,44,32,42,53,41,47,33,45,49,45,48,49,44,47,52,28,42,51,54,
    53,56,56,37,36,51,52,45,51,48,55,37,46,47,49,29,49,67,39,43,36,
    62,56,36,49,66,54,41))
colnames(gorilla) = c("seen", "W", "C", "CW")
glm.out = glm(seen ~ W * C * CW, family=binomial(logit), data=gorilla)
summary(glm.out)
cm2 <- table(gorilla$seen, ifelse(fitted(glm.out)>0.5, 1, 0))

X <- data.frame(cbind(gorilla$W,gorilla$C,gorilla$CW))
y <- factor(gorilla$seen)

bw <- npcdensbw(xdat=X, ydat=y, tol=.1, ftol=.1)
model.np <- npconmode(bws=bw)

summary(model.np)
## logistines
cm2

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