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# Instalación e carga de librerías utilizadas
install.packages("tableone")
install.packages("MatchIt")
library(tableone)
library(MatchIt)

# lectura de datos tabulados
ing2020 <- read.delim2("ubicación do arquivo.txt")
# ignora datos incompletas
ing2020 <- na.omit(ing2020)
# Axuste de modelo lineal xeralizado
pscores.model <- glm(tipo ~ Inge_2020,family = binomial("logit"),data = ing2020)
summary(pscores.model)
Propensity_scores <- pscores.model

# Valores medios axustados
ing2020$PScores <- pscores.model$fitted.values
hist(ing2020$PScores[ing2014$tipo==1],main = "PScores of Response = 1")
hist(ing2020$PScores[ing2014$tipo==0], main = "PScores of Response = 0")

# Covariables usadas
xvars <- c("Inge_2020")
# Táboa resumo agrupada segundo a variable "tipo"
table1 <- CreateTableOne(vars = xvars,strata = "tipo",data = ing2020, test = FALSE)
print(table1, smd = TRUE)

# Inferencia causal usando "nearest neighbor matching"
match <- matchit(pscores.model, method="nearest", radio=1,data=ing2020)
plot(match, type="jitter")
plot(match, type="hist")
# Conxuntos de datos coincidentes
match.data <- match.data(match)

# Táboa resumo agrupada segundo a variable "tipo" sobre as coincidencias
table_match <- CreateTableOne(vars = xvars,strata = "tipo",data = match.data,test = FALSE)
print(table_match, smd = TRUE)

# Comparación das mostrás coa proba t de Student
y_trt <- match.data$Inge_2020[match.data$tipo == 1]
y_con <- match.data$Inge_2020[match.data$tipo == 0]

difference <- y_trt - y_con
t.test(difference)

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