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library(ISLR)
train_sg <- read.csv("train_sg.csv")
test_sg <- read.csv("test_sg.csv")
View(train_sg)
View(test_sg)
str(train_sg)

str(test_sg)

write.csv(train_sg, 'train_sg2.csv')
write.csv(test_sg, 'test_sg2.csv')

pairs(train_sg)

pairs(test_sg)

hist(train_sg$y, col='red')

hist(train_sg$meta_rf, col="purple")

library(tree)
tree.train_sg<-tree(meta_knn~.-meta_rf, train_sg)
summary(tree.train_sg)

hist(test_sg$y, col='green')

hist(test_sg$meta_rf, col="yellow")

tree.test_sg<-tree(meta_knn~.-meta_rf, test_sg)
summary(tree.test_sg)

plot(tree.train_sg)
text(tree.train_sg, pretty = 0)

tree.train_sg

plot(tree.test_sg)
text(tree.test_sg, pretty = 0)

tree.test_sg

t.test(train_sg$meta_knn, mu=0.6)

t.test(train_sg$meta_rf, mu=0.7)

t.test(train_sg$meta_rf, mu=0.5, conf.level =0.80 )

t.test(train_sg$y, mu=0.5)

t.test(test_sg$meta_knn, mu=0.6)

t.test(test_sg$meta_rf, mu=0.7)

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t.test(test_sg$meta_rf,mu=0.5,conf.level =0.80 )

t.test(test_sg$y, mu=0.5)

plot(train_sg$meta_knn,train_sg$meta_rf)

cor(train_sg$meta_knn,train_sg$meta_rf)

mod<-lm(train_sg$meta_knn~train_sg$meta_rf)
summary(mod)


pred<-predict(mod)
test_sg$predicted = NA
test_sg$predicted = pred
library(car)
dwt(mod)

plot(train_sg$meta_knn,train_sg$meta_rf,abline(lm(train_sg$meta_knn~train_
sg$meta_rf), col="red"))

hist(train_sg$predicted, xlab = "Residuals", main ='Histogram of train
Residuals', col="yellow")

plot(test_sg$meta_knn,test_sg$meta_rf,abline(lm(test_sg$meta_knn~test_sg$m
eta_rf), col="purple"))

hist(test_sg$predicted, xlab = "Residuals", main ='Histogram of test
Residuals', col="violet")

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