library(rpart)

library(rattle) # Fancy tree plot

library(rpart.plot) # Enhanced tree plots

library(RColorBrewer) # Color selection for fancy tree plot

library(party) # Alternative decision tree algorithm

library(partykit) # Convert rpart object to BinaryTree

install.packages("caret")

library(caret)

install.packages("party")

install.packages("rpart")

library(party)

k=read.csv("mydata.csv")

print((k))

# Create the input data frame.

input.dat <-as.data.frame(k)

output.tree <- rpart(play ~ day + outlook + temp +

humidity + wind ,method = "class",data = input.dat)

output.tree

# Plot the tree.

rpart.plot(output.tree)

#plot(model)

library(dplyr)

fancyRpartPlot(output.tree)

filter(k,k$outlook=="overcast")

b=filter(k,k$outlook!="overcast")

c=b%>%count(play=="y")

c

filter(b,humidity=="high")

kyphosis

fit=rpart(Kyphosis~ Age + Number +Start,

method = "class", data = kyphosis)

fit=rpart(Kyphosis~ .,

method = "class", data = kyphosis)

plot(fit,uniform = TRUE,main="yo")

text(fit,use.n = TRUE,all = TRUE,cex=0.8)

rpart.plot(fit)

fancyRpartPlot(fit)

RpartPlot(fit)

library(dplyr)

kyphosis

z=filter(kyphosis,kyphosis$Start<8.5)

z

count(filter(z,Kyphosis=="absent"))

#y=group\_by(z,Kyphosis)

#summarise(y,count(Age))

bb=filter(kyphosis,kyphosis$Start>=8.5)

count(filter(bb,Kyphosis=="absent"))

filter(kyphosis,kyphosis$Start>=14)

install.packages("rpart")

install.packages("rpart.plot")

library("rpart")

library("rpart.plot")

data("iris")

View(iris)

indexes = sample(150, 110)

iris\_train = iris[indexes,]

iris\_test = iris[-indexes,]

count(iris\_train)

target = Species ~ Sepal.Length + Sepal.Width + Petal.Length + Petal.Width

tree = rpart(target, data = iris\_train, method = "class")

rpart.plot(tree)

predictions = predict(tree, iris\_test)

#table(predictions, iris\_test[,5])