#Model Deployment

library(pmml)

library(rpart)

dtree <- rpart(Species~., data=iris)

dtree

pmml(dtree)

#To store the PMML model in xml form, from R studio, the following script can be used.

saveXML(pmml(dtree),file="dtree\_in\_pmml.xml")

#Spark-R Integration

library(sparklyr)

sc <- spark\_connect(master = "local")

library(dplyr)

iris\_tbl <- copy\_to(sc, iris)

iris\_tbl

# Machine Learning using Apache Spark

# copy mtcars into spark

mtcars\_tbl <- copy\_to(sc, mtcars)

mtcars\_tbl

# transform our data set, and then partition into 'training', 'test'

partitions <- mtcars\_tbl %>%

filter(hp >= 100) %>%

mutate(cyl8 = cyl == 8) %>%

sdf\_partition(training = 0.5, test = 0.5, seed = 1099)

partitions

# fit a linear model to the training dataset

fit <- partitions$training %>%

ml\_linear\_regression(response = "mpg", features = c("wt", "cyl"))

summary(fit)