**R Code**

#Discretization

library(funModeling)

d\_bins=discretize\_get\_bins(data= simple\_dataset\_10feature, input=c("flgs\_number","srate","drate","rate","max","state\_number","mean","min","stddev","seq"),

n\_bins=5)

# Checking `d\_bins` object:

d\_bins

# Now it can be applied on the same data frame or in a new one

Leedata\_discretized=discretize\_df(data= simple\_dataset\_10feature, data\_bins=d\_bins,

stringsAsFactors=T)

View(Leedata\_discretized)

sapply(Leedata\_discretized, class)

LeeTrain <- createDataPartition(Leedata\_discretized$category, p=0.8, list=FALSE, times = 1)

Leetraining <- Leedata\_discretized[ LeeTrain, ]

Leetesting <- Leedata\_discretized[ -LeeTrain, ]

#Random Forest

library("randomForest")

Leemod\_RF <- train(category ~ ., data=Leetraining, method="rf")

Leepred\_RF = predict(Leemod\_RF, newdata=Leetesting)

confusionMatrix(Leepred\_RF,Leetesting$category)

# Random committee

library("kernlab")

Leemod\_ Random committee <- train(category ~ ., data=Leetraining, method=" Random committee Linear")

Leepred\_ Random committee = predict(Leemod\_ Random committee, newdata=Leetesting)

confusionMatrix(Leepred\_ Random committee,Leetesting$category)