

LANGUAGE USED: R-programming

PACKAGES USED-

1. RPART
install.packages("rpart", dependencies = T)
2. CARET
install.packages("caret")
3. RANN
install.packages("RANN")
4. RPART.PLOT
install.packages("rpart.plot", dependencies = T)
5. STATS
install.packages("stats", dependencies = T)
6. CLASS
install.packages("class", dependencies = T)
7. ADABAG
install.packages("adabag", dependencies = T)
8. RANDOMFOREST
install.packages("randomForest", dependencies = T)
9. GLMNET
install.packages("glmnet", dependencies = T)
10. ROCR
install.packages("rocr", dependencies = T)
11. IPRED
install.packages("ipred", dependencies = T)

HOW TO RUN AND COMPILE CODE:

1. You should have Rstudio installed
2. Import the dataset in the Rstudio using URL: <http://archive.ics.uci.edu/ml/machine-learning-databases/ionosphere/ionosphere.data>
3. Open the R code files in the Rstudio
4. Run each file **in the given order** –
 - a. logisticregression.R
 - b. knn.R
 - c. BaggingTechnique.R
 - d. randomForest.R
 - e. BoostingTechnique.R