**CSE – 6005 – Machine Learning**

**Lab Experiment – 08 - Implement Bagging using Random Forest and experiment with dataset.**

R version 3.3.2 (2016-10-31) -- "Sincere Pumpkin Patch"

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Platform: x86\_64-w64-mingw32/x64 (64-bit)

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Natural language support but running in an English locale

R is a collaborative project with many contributors.

Type 'contributors()' for more information and

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Type 'demo()' for some demos, 'help()' for on-line help, or

'help.start()' for an HTML browser interface to help.

Type 'q()' to quit R.

[Previously saved workspace restored]

> library(randomForest)

randomForest 4.6-12

Type rfNews() to see new features/changes/bug fixes.

Warning message:

package ‘randomForest’ was built under R version 3.3.3

> library(party)

Loading required package: grid

Loading required package: mvtnorm

Loading required package: modeltools

Loading required package: stats4

Loading required package: strucchange

Loading required package: zoo

Attaching package: ‘zoo’

The following objects are masked from ‘package:base’:

as.Date, as.Date.numeric

Loading required package: sandwich

Warning messages:

1: package ‘party’ was built under R version 3.3.3

2: package ‘strucchange’ was built under R version 3.3.3

3: package ‘sandwich’ was built under R version 3.3.3

> credit<-read.csv(C:\\Users\\Home\\Desktop\\credits.csv)

Error: unexpected input in "credit<-read.csv(C:\"

> credit<-read.csv("C:\\Users\\Home\\Desktop\\credits.csv")

> head(credit)

Time V1 V2 V3 V4 V5 V6

1 0 -1.3598071 -0.07278117 2.5363467 1.3781552 -0.33832077 0.46238778

2 0 1.1918571 0.26615071 0.1664801 0.4481541 0.06001765 -0.08236081

3 1 -1.3583541 -1.34016307 1.7732093 0.3797796 -0.50319813 1.80049938

4 1 -0.9662717 -0.18522601 1.7929933 -0.8632913 -0.01030888 1.24720317

5 2 -1.1582331 0.87773676 1.5487178 0.4030339 -0.40719338 0.09592146

6 2 -0.4259659 0.96052304 1.1411093 -0.1682521 0.42098688 -0.02972755

V7 V8 V9 V10

1 0.23959855 0.09869790 0.3637870 0.09079417

2 -0.07880298 0.08510165 -0.2554251 -0.16697441

3 0.79146096 0.24767579 -1.5146543 0.20764287

4 0.23760894 0.37743587 -1.3870241 -0.05495192

5 0.59294075 -0.27053268 0.8177393 0.75307443

6 0.47620095 0.26031433 -0.5686714 -0.37140720

> output.forest <- randomForest(Time~V1+V2+V3,data=credit)

> print(output.forest)

Call:

randomForest(formula = Time ~ V1 + V2 + V3, data = credit)

Type of random forest: regression

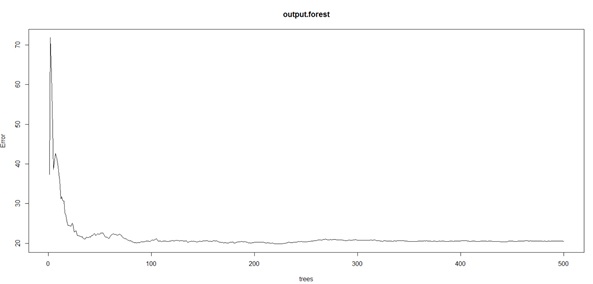
Number of trees: 500

No. of variables tried at each split: 1

Mean of squared residuals: 27.29896

% Var explained: -39.21

**OUTPUT :**

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