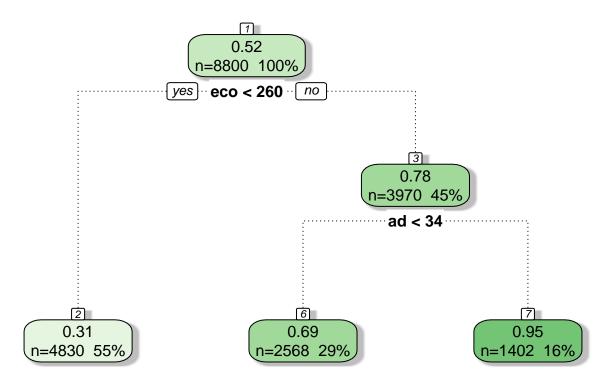
wk-6-EC-RPART_02JUNE.R

Rohit

Wed Jun 03 13:09:03 2015

```
# Week 6 - Classification Trees Assignment
ec <- read.csv("C:/STAT/_____STATISTICS_OWN/_____bridge_school/CANVAS-Pdf's/__Module_2/Week
attach(ec)
#Creation of Training and Test Data
s<-c(sample(1:500,400), sample(501:1000,400), sample(1001:10000,8000))
trn<-ec[s,]
tst<-ec[-s,]
library(caret)
## Loading required package: lattice
## Loading required package: ggplot2
# Building the Classification Tree. As Dependent Variable is Binomial.
# Churned ==0 / Stayed ==1
# Model - mT created from Training Data Sample.
# Same model tested with "Test" data for Prediction Accuracy .
mT<-train(st~.,method="rpart",data =trn)
## Loading required package: rpart
## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.
library(rattle)
## Rattle: A free graphical interface for data mining with R.
## Version 3.4.1 Copyright (c) 2006-2014 Togaware Pty Ltd.
## Type 'rattle()' to shake, rattle, and roll your data.
fancyRpartPlot(mT$finalModel)
```



Rattle 2015-Jun-03 13:09:16 Rohit

```
#Prediction for Training Data
TrnPred<-predict(mT, newdata=trn)
head(TrnPred)</pre>
```

[1] 0.3122153 0.6896417 0.3122153 0.6896417 0.9465050 0.6896417

table(trn\$st,TrnPred)

```
## TrnPred

## 0.312215320910973 0.689641744548287 0.946504992867332

## 0 3322 797 75

## 1 1508 1771 1327
```