Assignment 16.1

Name : Y Vasudev

Batch : DA with R , Excel and Tableau

1. Use the below given data set

Data Set

2. Perform the below given activities:

a. Predict the no of comments in next H hrs

Note:-

1. Use LASSO, Elastic Net and Ridge and other regression techniques that are covered in the

module

2. Report the training accuracy and test accuracy

3. compare with linear models and report the accuracy

4. create a graph displaying the accuracy of all models

#a),b),c),d)

#using slr dataset

#reading the dataset and viewing

slr <- read.csv("D:/acadgild/slr.csv")

slr1<- slr

View(slr1)

#features

dim(slr1)

str(slr1)

library(psych)

describe(slr1)

summary(slr1)

#visualization

hist(slr1$Advt ,xlab = "advt", ylab = "Frequency",main="Histogram of advt",col="red")

hist(slr1$Sales ,xlab = "sales", ylab = "Frequency",main="Histogram of sales",col="blue")

plot(slr1$Advt,slr1$Sales)

#\*\*\*NOTE\*\*\*

#using linear regression model technique

#using slr1 dataset

#linear regression model

model<- lm(slr1$Advt~slr1$Sales)

model

#Important features

#multiple r squared value

#p value of slope test

#F stats