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**DATA ANALYTICS WITH R, EXCEL and TABLEAU**

**Session 16 – Assignment – 16.1**

#Problem

#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

#Answers

#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