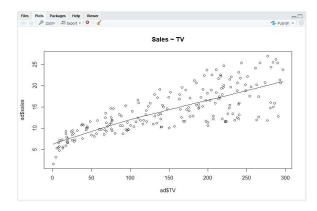
Md Reza

Lab_Exercise_1: Plot of Linear Model

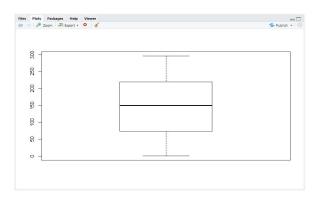
Due Date: 09-21-2019

Exploratory Data Analysis

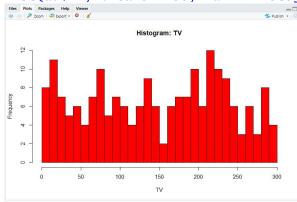
scatter.smooth(x=ad\$TV, y = ad\$sales, main = "Sales ~ TV")



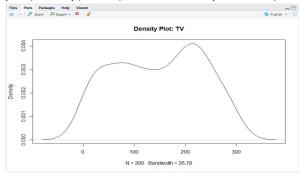
boxplot(ad\$TV)



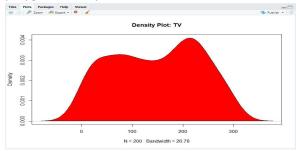
hist(ad\$TV, breaks = 30, main="Histogram: TV", xlab="TV", col='red')



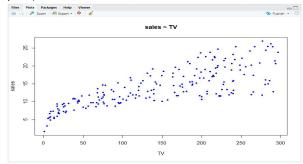
plot(density(ad\$TV), main="Density Plot: TV")



polygon(density(ad\$TV), col = 'red')

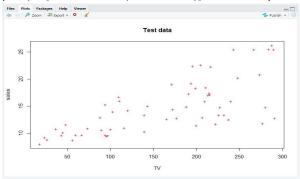


Plot the model fit, to save topdf, uncomment the pdf() and dev.off() lines plot(ad\$TV, ad\$sales, main="sales ~ TV", xlab="TV", ylab="sales", col='blue', pch=20)

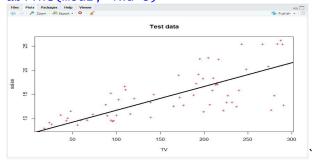


Plot the prediction

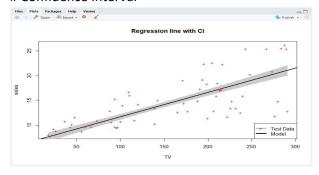
plot(ad[-trainIndex,c('TV', 'sales')], col='red', pch="+", main="Test data")



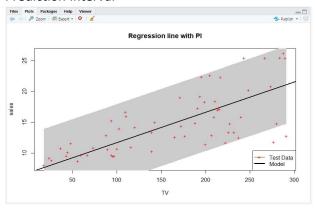
abline(mod2, lwd=3)



Confidence Interval



Prediction Interval



Exercise:

Add training data points to the above plot and in the legend

