

Fall 2016

MIS 413/572 - Introduction to Big Data Analytics

Exercise 3

1. Please load dataset *Boston* in package *MASS*. Explore a bit about this dataset by getting some descriptive statistics and/or frequency tables.
2. "Plot your data" to get visual senses of the variables. You may consider boxplots, density plots, or any other plots that help you understand the data.
3. Run normality tests on continuous variables and see whether these variables look "normal".
4. Check whether the continuous predictors are linearly correlated to the variable "*medv*" by using appropriate tests of correlations/associations.
5. Perform a series of bivariate analyses using simple linear models to find out the connections between "*medv*" (as the target variable) and the rest of variables. Do you see anything interesting?