

STAT 757 Assignment 5

DUE X/XX/2018 11:59PM

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Instructions [20 points]

Modify this file to provide responses to the Ch.5 Exercises in Sheather (2009). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter5.R>. Also address the project milestones indicated below. Please email **both** your .Rmd (or roxygen .R) and one of the following either .HTML, .PDF, or .DOCX using the format SURNAME-FIRSTNAME-Assignment5.Rmd and SURNAME-FIRSTNAME-Assignment5.pdf.

Choose either Exercise 5.4.2 or 5.4.3. Respond to all parts posed. [60 points]

Project milestones [20 points]

1. Perform an exploratory data analysis:
 - Numerically summarize the variables.
 - Make plots and explore relationships between variables.
 - Identify any strange points or anything else that doesn't make sense.
2. Begin to think about how to model the relationships in your data.

References

Sheather, Simon. 2009. *A Modern Approach to Regression with R*. Springer Science & Business Media.