

STAT 757 Assignment 7

DUE 4/15/2018 11:59PM

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Instructions [20 points]

Modify this file to provide responses to the Ch.7 Exercises in Sheather (2009). You can find some helpful code here: <http://www.stat.tamu.edu/~sheather/book/docs/rcode/Chapter7.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-Assignment7.Rmd and SURNAME-FIRSTNAME-Assignment7.pdf.

Exercise 7.5.3 [60 points]

Project milestones [20 points]

1. Conduct your data analysis plan.
 - Apply your model to fake data and ensure a proper fit.
 - Apply your model to real data.
 - Decide whether model is valid for the real data.
2. Refine your model as needed until you are satisfied with the fit.
 - Don't make decisions based on p -values or other inferential devices!
 - Only consider the fit and whether your model addresses your research hypothesis.

References

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