Homework 5

SOCI 502B: Graduate Statistics (Fall 2017)

10 points

Due: December 13, 2017

Overview:

In this assignment, you'll be completing 1 problem using SPSS (or R). This problem covers topics from Chapter 8 in your textbook.

Problem 1 (Regression)

- Using the GSS 2014 data set (GSS2014_final)¹, conduct a simple linear OLS regression analysis of how "political (conservative) views" (polviews) influence people's belief that the it is an important right for citizens to engage in civil disobedience when they oppose government actions (oppsegov²). Hint: think about what is the independent variable and what is the dependent variable.
 - polviews and oppsegov should be changed to scale measures
- Next, conduct a multiple OLS regression by including the (race) variable as another predictor of people's belief that the it is an important right for citizens to engage in civil disobedience when they oppose government actions (oppsegov).
- In this full (multiple regression) model, what is the value of the R^2 coefficient? How does it change from the initial (simple) model?
- In this full (multiple regression) model, what is the value of the F coefficient? How does it change from the initial (simple) model?
- Correctly and fully report and interpret the full model statistics. Include variance explained $(R^2$, with interpretation), model fit (F, with interpretation), and the values/significance of each independent variable.

 $^{^{1}\}mathrm{For}\ \mathrm{SPSS},\ \mathrm{use}\ \mathrm{GSS2014_final.sav}.\ \mathrm{For}\ \mathrm{R},\ \mathrm{use}\ \mathrm{the}\ \mathrm{R}\ \mathrm{script}\ \mathrm{and}\ \mathrm{GSS2014_final.csv}$

²Higher scores indicate that people believe civil disobedience against the government is a very important right (e.g. must be protected)