STT3851 Homework 1

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Due – January 26

Note: *Submit a printed pdf or an html file. ggplots must be used for all graphics. Graphics created using base commands will not receive credits.*

1. What are the main two statistical learning types?

2. State two examples where you can use the two types you mentioned in question 1). Explain **why** for each example.

3. Supervised Learning has been broadly classified into 2 types. What are they?

4. State three examples where you can use **regression**, **classification** and **clustering**. Explain **why** for each example.

5. Use the `Auto` data set found in the `ISLR` library to create the scatter plot shown here for `weight` versus `mpg` for each `origin`.