

STT3851 Homework 1

Dr. Hasthika Rupasinghe

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. Find two examples where you can use two types you mentioned in 1) to address the problem. Explain **why** for each example.
3. Supervised Learning has been broadly classified into 2 types. What are they?
4. Find three examples where you can use **regression**, **classification** and **clustering** to address the problem. 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**.

