**STT 811**

**In-Class Assignment 7**

This problem will use the Heart dataset. The target is the AHD field.

1. Create a target based on the AHD field with numerical values of 0 and 1.
2. Build a logistic regression model for your target based on MaxHR, RestBP, and ChestPain. How significant are the coefficients?
3. Calculate the risk of heart disease based on this model for someone with a Maximum Heart Rate of 170, a Resting Blood Pressure of 145, and nontypical Chest Pain. Express the risk both as a probability and as an odds ratio.
4. Create the confusion matrix for this model, based on the y values and the fitted values.