Math 5366 Homework 21

1. Remove all categorical variables from the Auto MPG data set from the UCI Machine Learning Repository, and then examine this data set for anomalies, using the following methods for computing outlier scores:

   - Distance to k-nearest neighbor, where $k = 5$
   - Density
   - Local Outlier Factor method.

   For each of these methods, plot the density of the outlier score, and produce scatterplots with a heat map of the outlier scores.

   Do you have any comments on this data set after performing the outlier analysis?