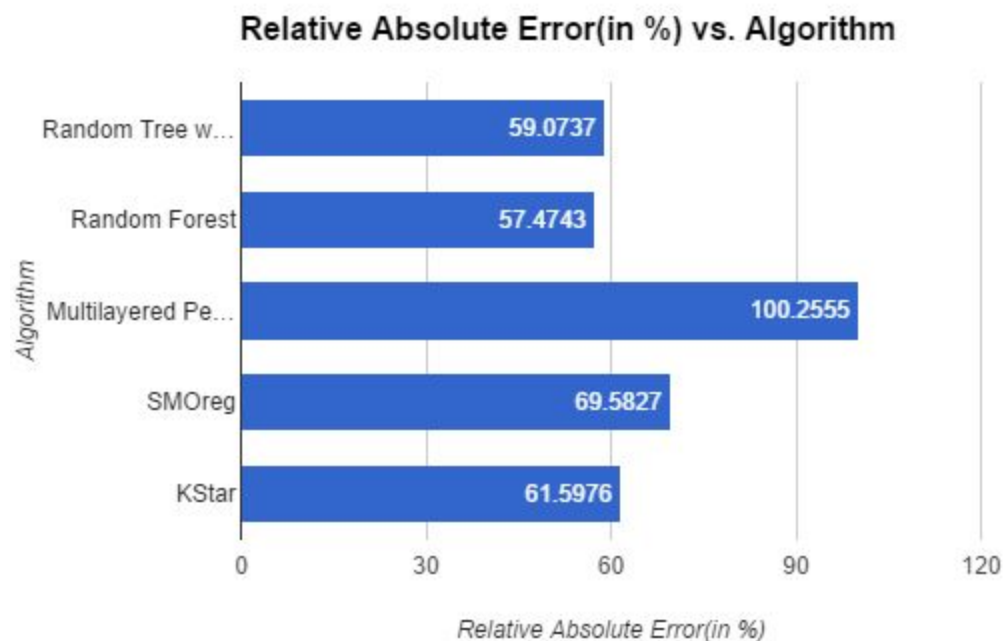


## Class: 6230 Machine Learning

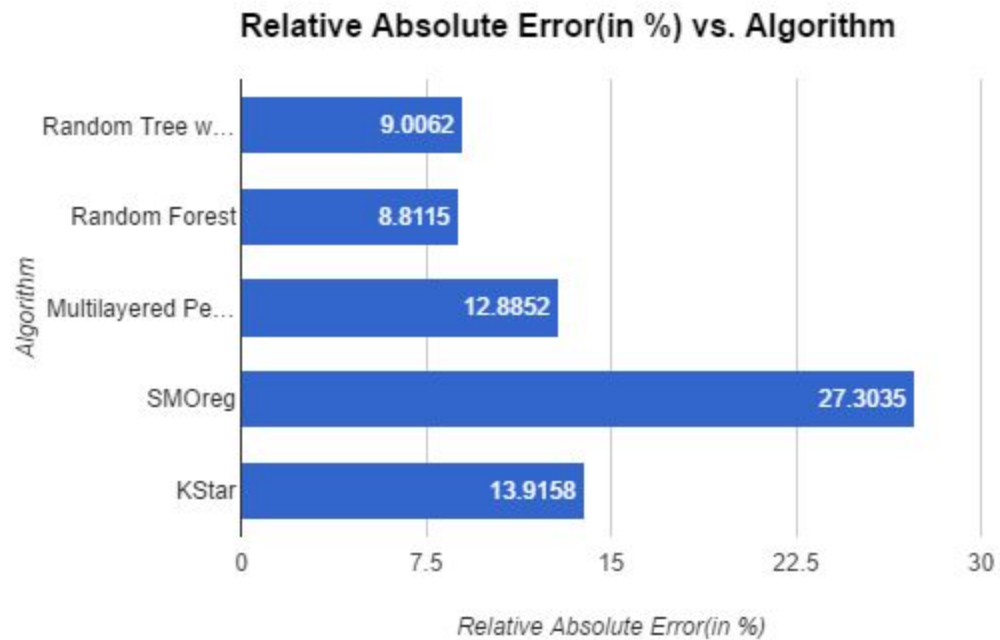
### Programming Assignment 2

In this assignment, 5 algorithms, with implementation provided by Weka, were used to classify data. The data was in two datasets named, Thyroid and Glass. The data was provided in .data files with metadata in a .name file. As to allow the weka library to process the data, the data was converted manually into .arff files. The weka library was used in a Java program to perform the machine learning algorithms on it. The algorithms used are, Random Tree with Bagging, Random Forest, Multilayered Perceptron, Support Vector Machine with Regression (SMOreg) and K Star.

#### Relative Absolute Error rate for new-thyroid dataset



## Relative Absolute Error rate for glass dataset



## Resources used

### **Weka Library**

<http://www.cs.waikato.ac.nz/ml/weka/downloading.html>

<https://weka.wikispaces.com/>