

CSCI 4380/6380 Data Mining

Assignment Number 5: Due 11/16/2017 (in class)

1. [25 points] Short answers please

- (a) Give a major difference between lift charts and ROC curves.
- (b) Give one advantage to using the mean absolute error instead of the root mean squared error for performance evaluation.
- (c) Give one advantage to using the relative absolute error instead of the mean absolute error for performance evaluation.

2. [25 points] Short answers please

- (a) Give two major differences between Kernel Ridge regression and Support Vector Machines.
- (b) Why is over-fitting less likely to happen using support vector machines than many other methods?
- (c) Give two ways to speed up back-propagation learning of neural networks.