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Hw1 –CS498 AML
2/1/2016
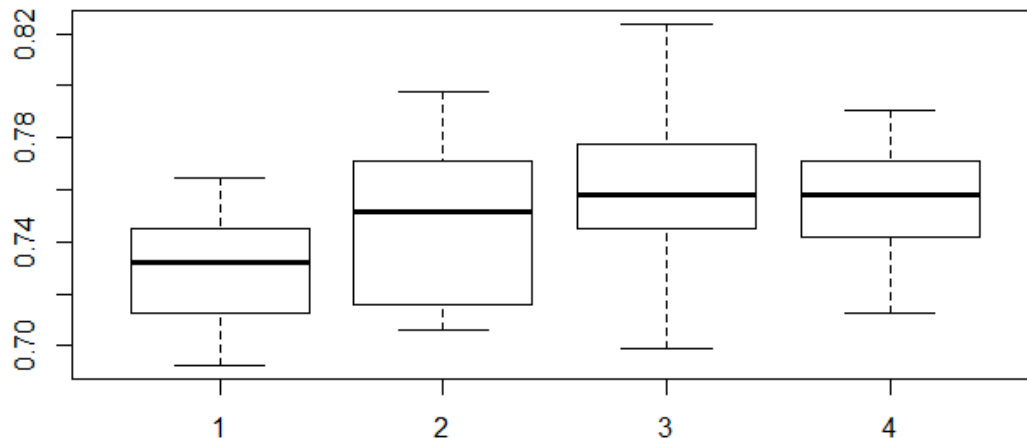
a) **Average accuracy of each classifier you built with different train set and test set(at least**

   5 trials)

   See graph below, each rectangle from left to right corresponds to the four classifiers

   from problem a through d.

   The average accuracy from 7 trials for each classifier is:

   0.729225, 0.7469654, 0.7596111, 0.7553688

b) **A very brief discussion of performance, which one seems to work better? draw a graph**

   if you could(optional)

From the graph above, I think Naïve Bayes classifier from the library works the best, with

the highest average accuracy and fewest outliners. The second classifier, which is based

on the first one with the adjustment of taking care of missing data, gave better training

result. SVMlight performs as well as naïve Bayes classifier from the library.