

## Assignments for Lab-5

Dataset: spam data

- 1)
  - a) Apply bagging on fully grown decision tree.
  - b) Apply bagging on pruned decision tree.
  - c) observe the difference in the results obtained in (a) and (b).
- 2)
  - a) Apply random forest on fully grown decision tree.
  - b) Apply random forest on pruned decision tree.
  - c) observe the difference in the results obtained in (a) and (b).
- 3)
  - a) Sample 10 sets from input data. Apply a classifier on each sample set.
  - b) Sample 10 sets from input data. Apply a classifier on each sample set, discard those which are having error rate greater than 0.5 (accuracy rate less than 0.5).
  - c) observe the difference in the results obtained in (a) and (b).