

Week 6 - Check Your Understanding

1. All the trees in a random forest are trained on the same original dataset.
 - a. True
 - b. False
2. To decide the best variable to split for a tree in a random forest, one would consider all the possible predictors to decide the best.
 - a. True
 - b. False
3. In random forest, one can estimate the test error without performing cross validation or other validation set approach.
 - a. True
 - b. False
4. Random forest usually improve the accuracy over prediction using a single tree.
 - a. True
 - b. False
5. Bagging method can be applied to linear models.
 - a. True
 - b. False
6. Bagging models will reduce the variance of the model comparing to a single model
 - a. True
 - b. False
7. Bagging models will be easier to interpret than a single model
 - a. True
 - b. False
8. The number of variables/predictors considered at each split to decide the best split in a random forest is \sqrt{p} where p is the total number of predictors.
 - a. True
 - b. False
9. One can increase the diversify of a random forest by increasing the number of variables/predictors considered at each split to decide the best split in a random forest
 - a. True
 - b. False