Week 5 - Check Your Understanding

2. The prediction of a regression tree (quantitative response) are the mean of the response values of the

1. Decision tree can only be used for categorical response

observations in the associated node.

a. Trueb. False

a. Trueb. False

3. The prediction of a classification tree (qualitative response) are the majority of the response values of the observations in the associated node.
a. True b. False
4. Gini-Index is the only way to measure the impurity of a node in decision trees.
a. True b. False
5. Decision Trees split using Gini-Index are similar to trees split using entropy.
a. True b. False
6. Deeper/larger trees will have a higher training accuracy than the shallower trees.
a. True b. False
7. One wants to build a decision tree to detect if a patient has lung cancer. One should use
a. Classification Tree
b. Regression Tree
8. One wants to build a decision tree to predict salary. One should use
a. Classification Tree
b. Regression Tree
9. Decision trees can achieve zeros training errors for any given data.
a. True
b. False