

Module 4 Quiz

LATEST SUBMISSION GRADE  
100%

1. Which of the following is an example of clustering?

1 / 1 point

✔ Correct

2. Which of the following are advantages to using decision trees over other models? (Select all that apply)

1 / 1 point

✔ Correct

3. What is the main reason that each tree of a random forest only looks at a random subset of the features when building each node?

1 / 1 point

✔ Correct

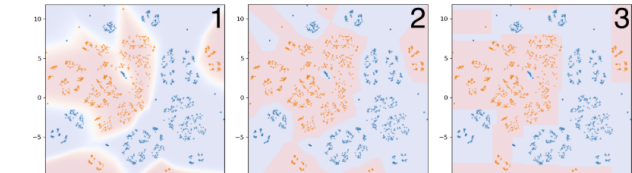
5. Select which of the following statements are true.

1 / 1 point

✔ Correct

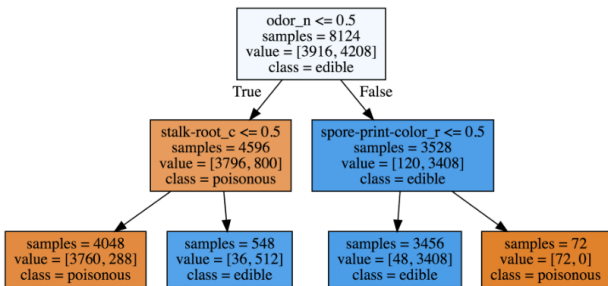
6. Match each of the prediction probabilities decision boundaries visualized below with the model that created them.

1 / 1 point



7. A decision tree of depth 2 is visualized below. Using the "value" attribute in each leaf, find the accuracy score for the tree of depth 2 and the accuracy score for a tree of depth 1.

1 / 1 point



What is the improvement in accuracy between the model of depth 1 and the model of depth 2? (i.e. accuracy2 - accuracy1)

✔ Correct

9. Which of the following might be good ways to help prevent a data leakage situation?

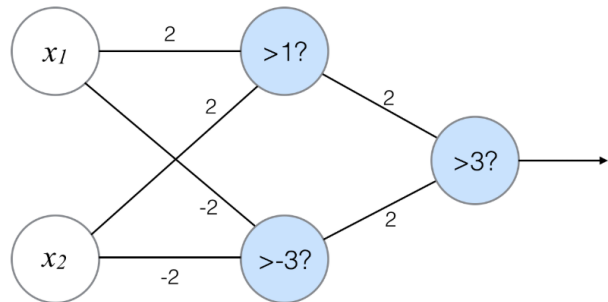
1 / 1 point

✔ Correct

10. Given the neural network below, find the correct outputs for the given values of x1 and x2.

1 / 1 point

The neurons that are shaded have an activation threshold, e.g. the neuron with >1? will be activated and output 1 if the input is greater than 1 and will output 0 otherwise.



✔ Correct