← **Module 4 Quiz**
Quiz, 10 questions

7/10 points (70%)

✖ **Try again once you are ready.**

Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

Back to Week 4

Retake

✔ 1 / 1
   points

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

✔ 1 / 1
   points

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

✔ 1 / 1
   points

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?

✖ 0 / 1
   points

4.
Which of the following supervised machine learning methods are greatly affected by feature scaling? (Select all that apply)

✖ 0 / 1
   points

5.
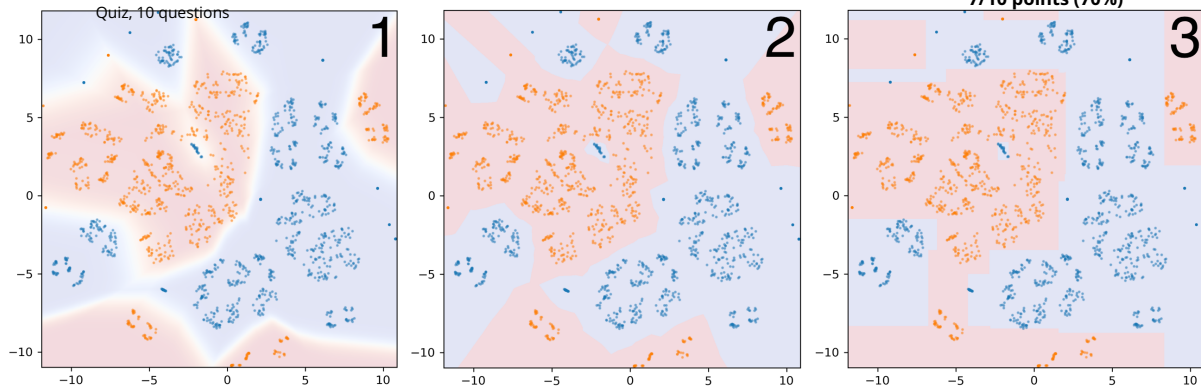Select which of the following statements are true.

✔ 1 / 1
   points

6.

Match each of the prediction probabilities decision boundaries visualized below with the model that created them.
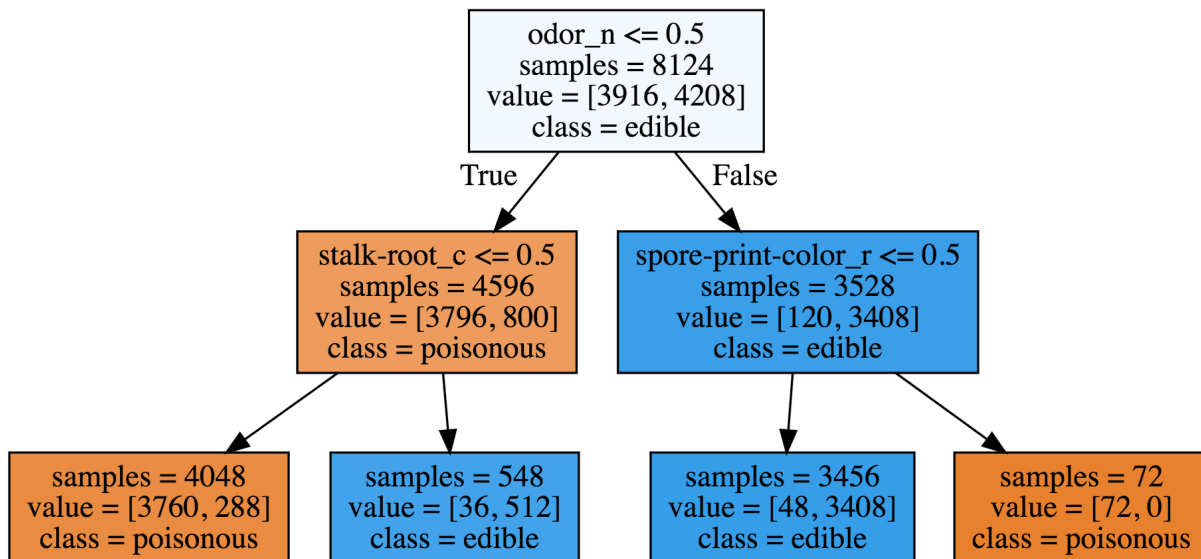
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✔   1 / 1 points

7.

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

What is the improvement in accuracy between the model of depth 1 and the model of depth 2?

✖   0 / 1 points

8.

For the autograded assignment in this module, you will create a classifier to predict whether a given blight ticket will be paid on time (See the module 4 assignment notebook for a more detailed description). Which of the following features should be removed from the training of the model to prevent data leakage? (Select all that apply)

✔   1 / 1 points

9.

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

✔   1 / 1
       Module 4 Quiz
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10.

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

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.

👍   👎   🏳