

Quiz 12

Started: Dec 1 at 11:08pm

Quiz Instructions

Please note that once you start the quiz, you will have 7 minutes to answer all the questions.

If you are a student registered with the ODS and have contacted us beforehand you will have 14 minutes to answer all of the questions.

Quizzes are due end of Friday AoE, but you have a grace period until the end of Sunday AoE to take the quiz without penalty.

Question 1

1 pts

What are the main problems with a full-grown tree in a decision tree model?

- 1) Computationally expensive to train
- 2) Usually performs bad for the training dataset
- 3) Overfitting can potentially happen
- 4) A fully-grown decision tree does not exist

☐ 1 and 4

☐ 1 and 3

☐ 2 and 4

☐ 2 and 3

Question 2

1 pts

_____ entropy corresponds with high purity. _____ entropy corresponds with low purity.

☐ High, High

☐ High, Low

☐ Low, High

☐ Low, Low

Question 3

1 pts

Which of the following is NOT a problem that occurs when a decision tree becomes too large?

☐ Overfitting

- ☐ High variance
- ☐ Instability in predicting testing data
- ☐ Curse of dimensionality

Question 4**1 pts**

TRUE or FALSE: In bootstrapping, after training B classifiers, we choose the classifier that performs the best.

- ☐ True
- ☐ False

Question 5**1 pts**

Random forest modeling uses

- ☐ Bagging
- ☐ Boosting
- ☐ Both of the above
- ☐ None of the above

Not saved

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