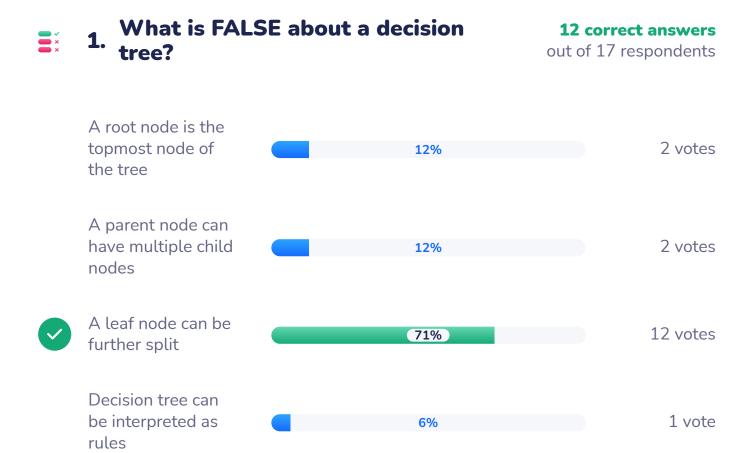
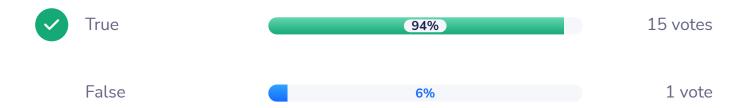
QF632-2025-W6

Number of participants: 28



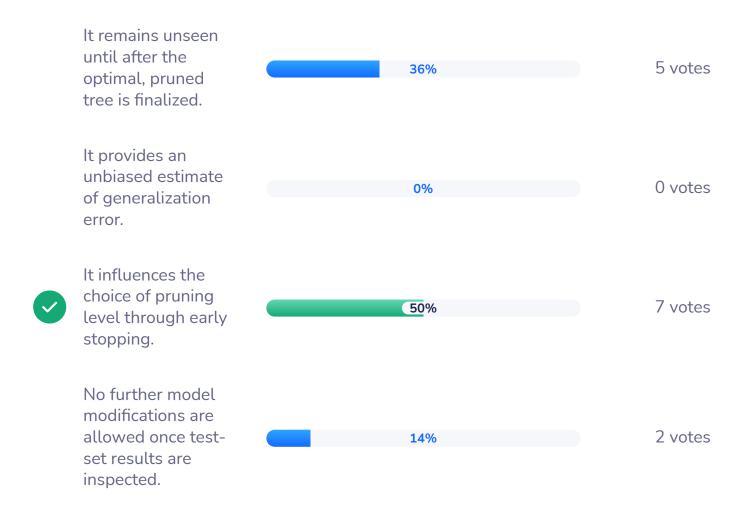
CART can handle both classification2. (y is categorical) and regression (y is continuous)

15 correct answers out of 16 respondents



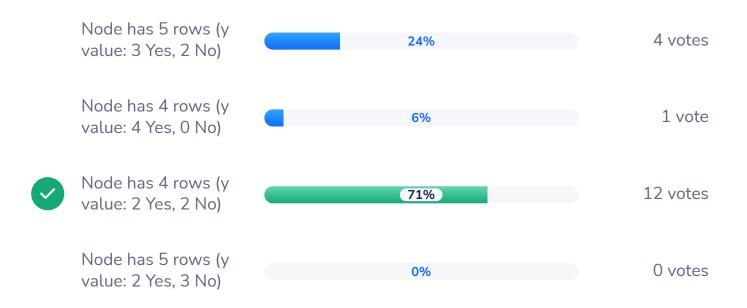
Which of the following statements 3. about the test set in the 3-way split is FALSE?

7 correct answers out of 14 respondents



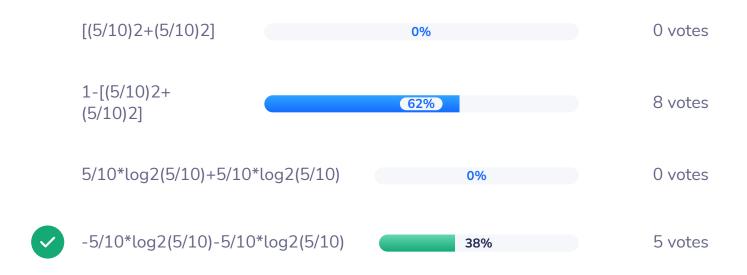
4. Which node has the largest Gini impurity index?

12 correct answers out of 17 respondents



What is the entropy of a node with 5. 10 rows, and the y value has 5 Yes, and 5 No?

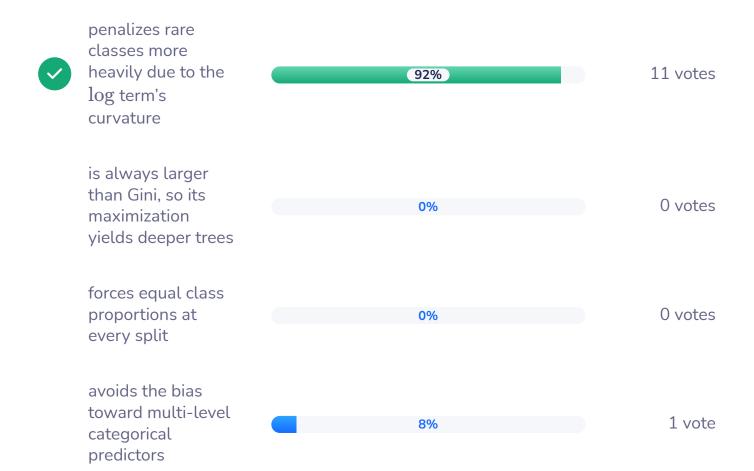
5 correct answers out of 13 respondents



×

Empirically, CART splits chosen via entropy tend to be slightly more "pure" than those via Gini when classes are imbalanced. The most defensible explanation is that entropy

11 correct answers out of 12 respondents





7. The purpose of pruning for CART is to prevent underfitting of the tree

13 correct answers out of 14 respondents



Which of the following is a primary advantage of decision trees?

12 correct answers out of 12 respondents





If a decision tree is grown to its maximum depth without any restrictions, what potential issue might arise?

12 correct answers out of 12 respondents

