

# CS381 Data Analytic Regression Practice Quizz

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Question 1: Which of the following are true?

1. Entropy is highest when the dataset is dominated by one type of data.
2. Gini index is almost zero when probability for one class is 99%.
3. Information gain is calculated by subtracting the weighted sum of the entropy after the split from the entropy before the split.

- A. Only 1
- B. Only 2
- C. Only 3
- D. 1 and 2 are true
- E. 2 and 3 are true

Answer:

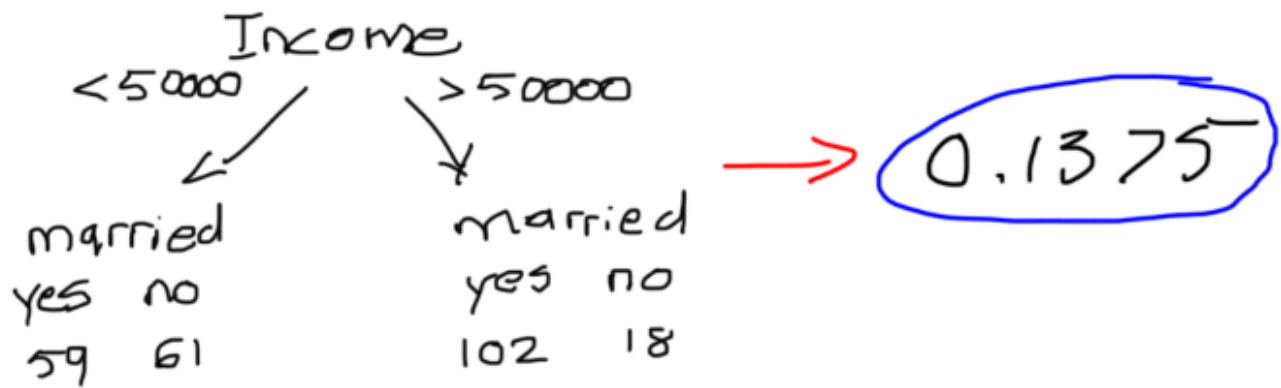
Question 2: Which of the following are true?

1. Random Forest is an example of ensemble methods
2. Decision Tree can use both entropy and gini index as the criterion
3. Decision Tree is an example of divide-and-conquer method of solving problems.

- A. Only 1
- B. Only 2
- C. 1 and 2 are true
- D. 2 and 3 are true
- E. All of them are true

Answer:

Question 3: Based on the following information, calculate the information gain and verify that it is 0.1375



Answers: