

Regression & Tree

Quiz on Regression and Tree

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✓ 1.The logit function(given as $l(x)$) is the log of odds function. What could be the range of logit function in the domain $x=[0,1]$?

☒ A) $(-\infty, \infty)$



☐ B) $(0,1)$

☐ C) $(0, \infty)$

☐ D) $(-\infty, 0)$



✓ 2. What is gini index?

☐ It is a type of index structure

☒ It is a measure of purity ✓

☐ Both options

☐ None

✓ 3. Consider the following dataset in table 1 for question 5-10 where each record represents the age, income and is a student or not. And we need to classify it as buyers/non-buyers of computer. How many records will be in the root initially?

☒ 14 ✓

☐ 9

☐ 5

☐ 10

✓ Refer data in above question. In the root node how many classes will be there?

☐ 3

☒ 2 ✓

☐ 4

☐ 14



✓ Use data in earlier questions. Using ID3 algorithm calculate the information gain for each possible split if you split based on age?

☐ 0.30

☐ 0.40

☒ 0.246



☐ 0.1

✓ How will you counter over-fitting in decision tree?

☒ By pruning the longer rules



☐ By creating new rules

☐ Both By pruning the longer rules' and ' By creating new rules'

☐ None of the options

✓ Which of the following methods do we use to find the best fit line for data in Linear Regression?

☒ Least Square Error



☐ Maximum Likelihood

☐ Logarithmic Loss

☐ Both A and B



✓ Which of the following methods do we use to best fit the data in Logistic Regression?

☐ Least Square Error

☒ Maximum Likelihood ✓

☐ Jaccard distance

☐ Both A and B

✓ Suppose you have been given a fair coin and you want to find out the odds of getting heads. Which of the following option is true for such a case?

☐ odds will be 0

☐ B) odds will be 0.5

☒ C) odds will be 1 ✓

☐ D) None of these

✓ Which of the following is true about Residuals ?

☒ Lower is better ✓

☐ Higher is better

☐ A or B depend on the situation

☐ None of these



✓ Which of the following evaluation metrics can be used to evaluate a model while modeling a continuous output variable?

☐ AUC-ROC

☐ Accuracy

☐ Logloss

☒ Mean-Squared-Error



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