



Tests, Surveys, and Pools

Tests

Test Canvas : Prep Quiz 16, Mar 22 (deadline 11:40am, Mar 22)

Edit Mode is: ON ?

This Test has 43 attempts. For information on editing questions, click **More Help** below.



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The Test Canvas allows you to add and edit questions, add question sets or random blocks, reorder questions, and review the test. [More Help](#)

Question Settings

You can edit, delete, or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

Description This quiz will be available until 1 hour before class on 22-Mar. You have 1 try and will get 10 minutes. After ten minutes the quiz will self submit. As a reminder, you can use all material, but communicating the questions or answers to fellow students is considered cheating. The quiz should be easy if you watched the videos and read the material.

Instructions

Total 3

Questions

Total Points 100

Number of Attempts 43

Select: [All](#) [None](#) Select by Type: - Question Type -

Delete and Regrade

Points

Update and Regrade

Hide Question Details

Points: 34

☐ **1. Multiple Choice: Consider the following decision tree. yTRAIN is either 0 or 1. What is the probability that a new in: Multiple Choice Consider the fol...**

Question

Multiple Choice

Consider the following decision tree. yTRAIN is either 0 or 1. What is the probability that a new instance with the following values for TotalDiscount and Recency is a 1?

TotalDiscount = 10

Recency = 21

```
> (tree <- rpart(yTRAIN ~ ., BasetableTRAIN))
n= 707
```

node), split, n, loss, yval, (yprob)
* denotes terminal node

- ```
1) root 707 36 0 (0.94908062 0.05091938)
 2) TotalDiscount< 109.9136 677 22 0 (0.96750369 0.03249631)
 4) Recency>=21.5 585 9 0 (0.98461538 0.01538462) *
 5) Recency< 21.5 92 13 0 (0.85869565 0.14130435)
 10) TotalDiscount< 42.08757 81 6 0 (0.92592593 0.07407407) *
 11) TotalDiscount>=42.08757 11 4 1 (0.36363636 0.63636364) *
 3) TotalDiscount>=109.9136 30 14 0 (0.53333333 0.46666667)
 6) TotalDiscount>=146.6379 12 1 0 (0.91666667 0.08333333) *
 7) TotalDiscount< 146.6379 18 5 1 (0.27777778 0.72222222) *
```

Answer

0.08333333

0.63636364

 0.07407407

0.03249631



Points: **33**

## 2. Multiple Choice: When is the Gini Index the highest?: Multiple Choice When is the Gini...


Question

Multiple Choice

When is the Gini Index the highest?

Answer

p=0

 p=0.5

$p=0.8$  $p=1$ Points: **33**

**3. Either/Or: A higher cp in rpart will result in more splits: A higher cp in rpart will r...**

**Question**

A higher cp in rpart will result in more splits

**Answer**

True



False

Select: **All** **None** Select by Type: **- Question Type -**

Delete and Regrade

Points

Update and Regrade

Hide Question Details

← **OK**