

Tests, Surveys, and Pools Tests **Test Canvas : Prep Quiz 22 (Apr 17)**

Edit Mode is: • ON ?

Test Canvas: Prep Quiz 22 (Apr 17)

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

Create Question

Reuse Question

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Question Settings

Description This quiz will be available until 1 hour before class on Apr 17. 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 5

Questions

Total Points 100

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

Delete

Points

Update

Hide Question Details



Points: 20

1. Multiple Choice: Which single cutoff performance measure should we use if we are interested in the model performance: Multiple Choice: Which single ...

Question

Multiple Choice:

Which single cutoff performance measure should we use if we are interested in the model performance on all the test instances, and we want both classes to have equal weight in the measure.

Answer

☒ balanced accuracy☐ specificity☐ sensitivity☐ accuracy

☐ 2. Calculated Numeric: Consider 10 observed positive...

Points: 20

Question	Consider 10 observed positives and 90 observed negatives. Also consider 1 true positive and 88 true negatives. This means we are performing very poorly on the positives and very well on the negatives. What is the accuracy as a decimal number (e.g., 0.50)? Determine for yourself if this is a logical model performance measure given that we are performing very poorly on one class and very well on the other
Answer	0.89
Answer range +/-	0

☐ 3. Calculated Numeric: Consider 10 observed positive...

Points: 20

Question	Consider 10 observed positives and 90 observed negatives. Also consider 1 true positive and 88 true negatives. This means we are performing very poorly on the positives and very well on the negatives. What is the <u>balanced</u> accuracy as a decimal number (e.g., 0.50)? <u>Round to two decimal places.</u> Determine for yourself if this is a logical model performance measure given that we are performing very poorly on one class and very well on the other.
Answer	0.54
Answer range +/-	0

☐ 4. Calculated Numeric: Consider having a binary clas...

Points: 20

Question	Consider having a binary classification model, and making a prediction on a test set. If the model is perfectly calibrated then all the test instances with a prediction for class 1 of 0.05, will have $y=1$ in % of the instances. Example answer: 20
Answer	5
Answer range +/-	0

☐ 5. Multiple Answer: If we have a non-calibrated m...

Points: 20

Success: Question created. 

Question	If we have a non-calibrated model we can use/do the following (choose ALL correct answers) ...
Answer	<div><input checked="" type="checkbox"/> cutoff independent measures</div> <div><input checked="" type="checkbox"/> calibrate the model</div>

single cutoff measures on the raw scores

 single cutoff measures on the percentile ranks

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

Points

← OK