Precision-Recall

9 questions

1 point

1.

Questions 1 to 5 refer to the following scenario:

Suppose a binary classifier produced the following confusion matrix.

	Predicted Positive	**Predicted Negative**
Actual Positive	5600	40
Actual Negative	1900	2460

What is the **precision** of this classifier? Round your answer to 2 decimal places.

Enter answer here

1 point

2.

Refer to the scenario presented in Question 1 to answer the following:

(True/False) This classifier is better than random guessing.

- True
- False

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1 point

3.

Refer to the scenario presented in Question 1 to answer the following:

(True/False) This classifier is better than the majority class classifier.

- True
- False

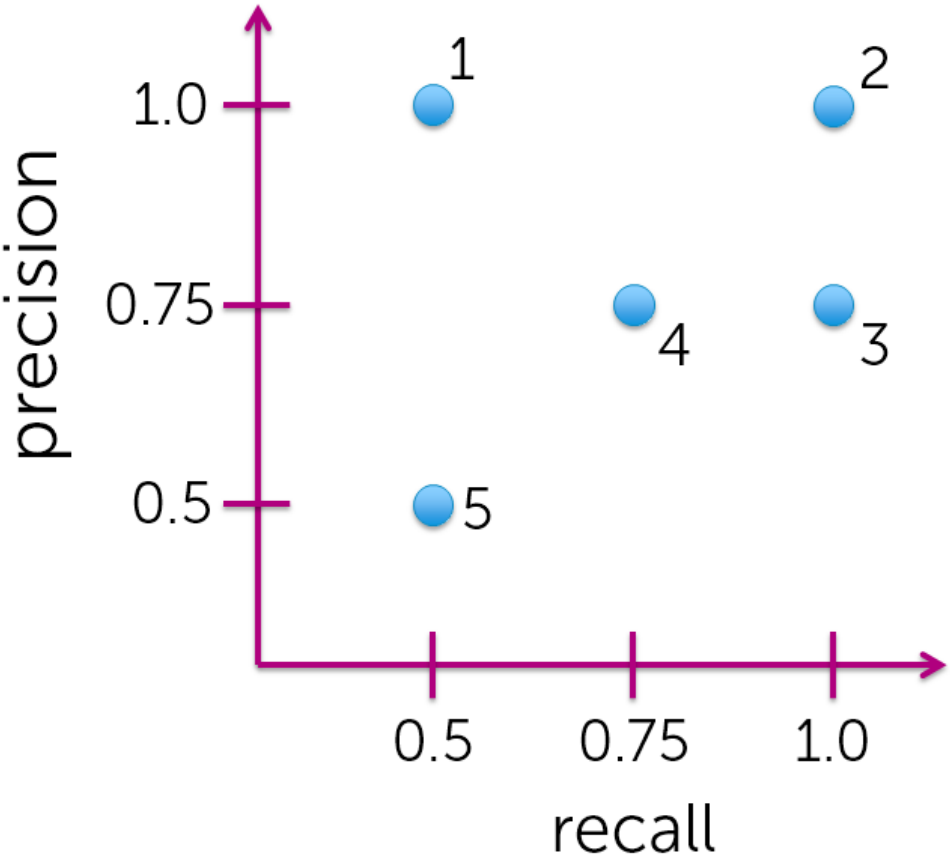
---

1 point

4.

Refer to the scenario presented in Question 1 to answer the following:

Which of the following points in the precision-recall space corresponds to this classifier?



- (1)
- (2)
- (3)
- (4)
- (5)

1 point

5.

Refer to the scenario presented in Question 1 to answer the following:

Which of the following best describes this classifier?

- It is optimistic
- It is pessimistic
- None of the above

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1 point

6.

Suppose we are fitting a logistic regression model on a dataset where the vast majority of the data points are labeled as positive. To compensate for overfitting to the dominant class, we should

- Require higher confidence level for positive predictions
- Require lower confidence level for positive predictions

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1 point

7.

It is often the case that false positives and false negatives incur different costs. In situations where false negatives cost much more than false positives, we should

- Require higher confidence level for positive predictions
- Require lower confidence level for positive predictions

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1 point

8.

We are interested in reducing the number of false negatives. Which of the following metrics should we primarily look at?

- Accuracy
- Precision
- Recall

1 point

9.

Suppose we set the threshold for positive predictions at 0.9. What is the lowest score that is classified as positive? Round your answer to 2 decimal places.

Enter answer here

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9 questions unanswered

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