# Precision-Recall

9 试题

1 point

1.
Questions 1 to 5 refer to the following scenario:

Suppose a binary classifier produced the following confusion matrix.

| | | Predicted class labels | |
|---|---|---|---|
| | | Positive | Negative |
| Actual class labels | Positive | 5600 | 40 |
| | Negative | 1900 | 2460 |

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

0.75

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

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.

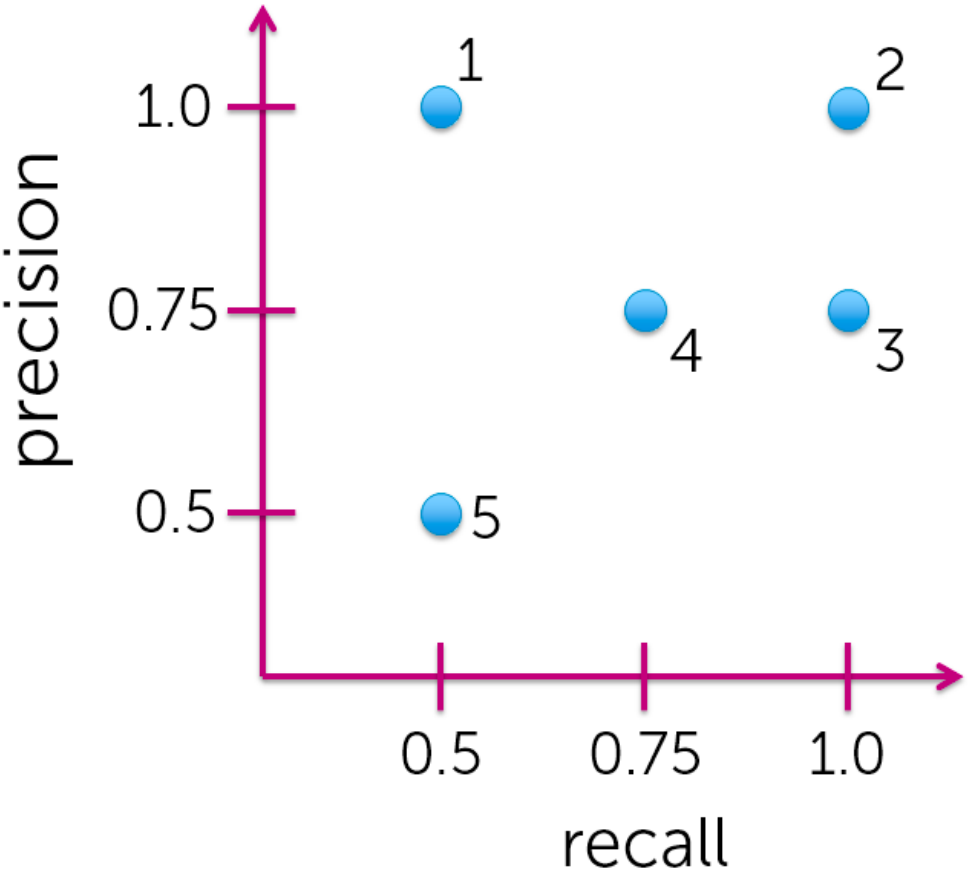
- ○ True
- ○ False

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?

- [x] 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

- [x] 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
- [x] 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.

2.20

提交测试