

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 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.

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

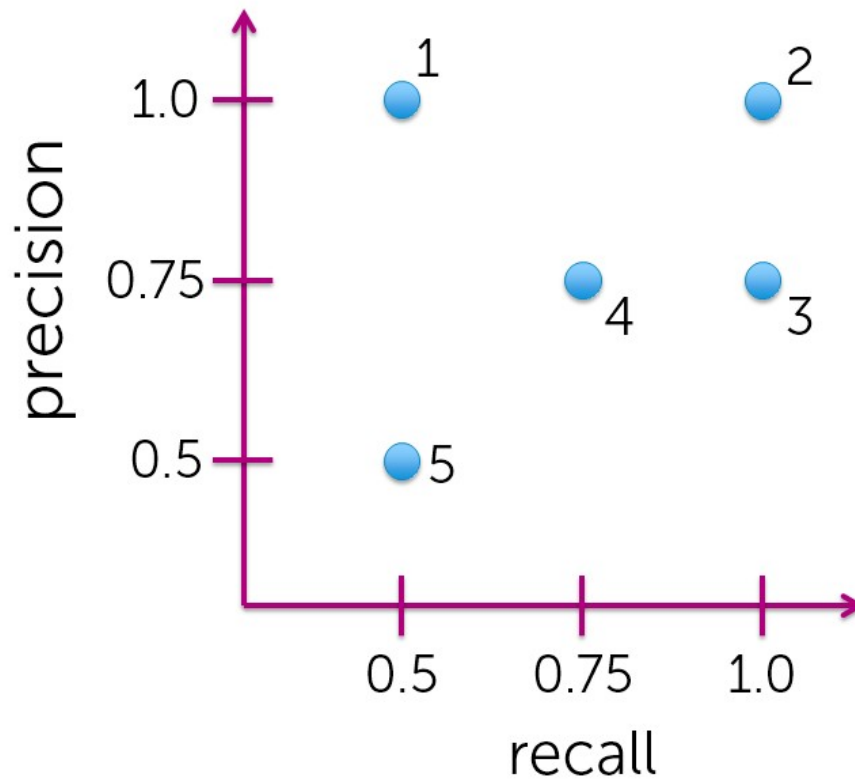
☐ False

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?

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

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
-

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
-

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



我了解不是我自己完成的作业将永远不会通过该课程且我的 Coursera 帐号会被取消激活。了解荣誉准则的更多信息

沈伟臣

提交测试

