



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 class labels	
		Positive	Negative
Actual class labels	Positive	5600	40
	Negative	1900	2460

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

0.81

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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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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

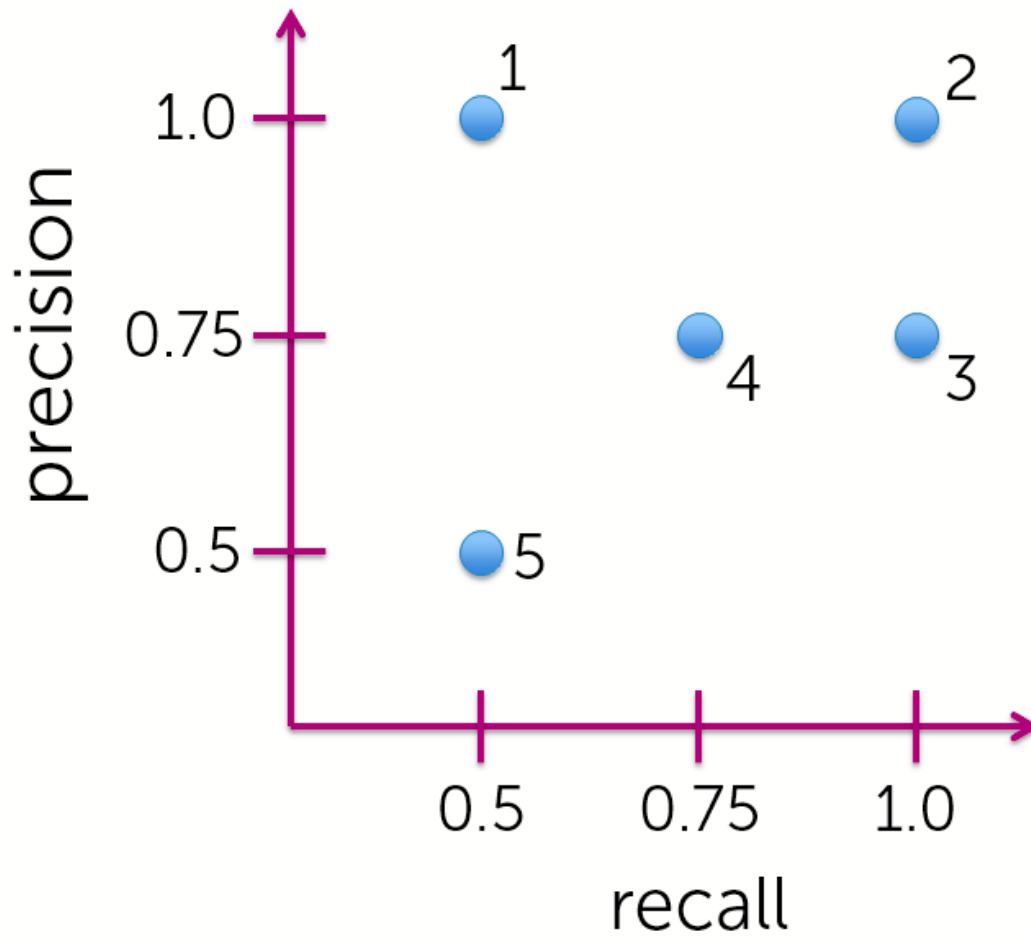
☐ False

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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)

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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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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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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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8.

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

- ☐ Accuracy

☒ Precision

☐ Recall

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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.

0.91

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