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:

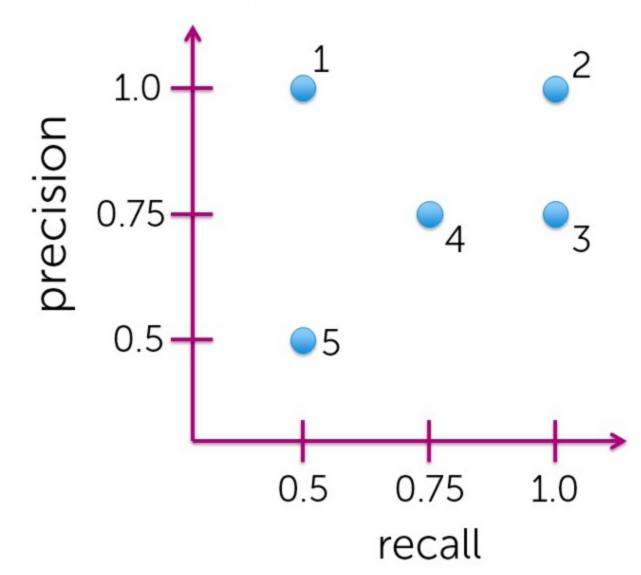
(True/False) This classifier is better than the majority class classifier.

True

False

1 point $\textbf{4.} \quad \text{Refer to the scenario presented in Question 1 to answer the following:} \\$

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



(1)

(2)

(3)

(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 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 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

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

point

 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.

2.19

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