Exploring precision and recall

13 试题

1 point

1.

Consider the logistic regression model trained on **amazon_baby.gl** using GraphLab Create.

Using accuracy as the evaluation metric, was our **logistic** regression model better than the majority class classifier?



Yes



No

1 point

2. How many predicted values in the **test set** are **false positives**?

1443

1 point

3.

Consider the scenario where each false positive costs \$100 and each false negative \$1.

Given the stipulation, what is the cost associated with the logistic regression classifier's performance on the **test set**?



	Between \$0 and \$100,000
	Between \$100,000 and \$200,000
	Between \$200,000 and \$300,000
	Above \$300,000
1 point 4.	
Out of a	all reviews in the test set that are predicted to be positive, action of them are false positives ? (Round to the second I place e.g. 0.25)
0.0	4
1 point	
	on what we learned in lecture, if we wanted to reduce this of false positives to be below 3.5%, we would:
\bigcirc	Discard a sufficient number of positive predictions
	Discard a sufficient number of negative predictions
	Increase threshold for predicting the positive class ($\hat{y}=+1$)
	Decrease threshold for predicting the positive class ($\hat{y}=+1$)

1 point

1 point 7. What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1 1 point 8. What happens to the number of positive predicted reviews as the threshold increased from 0.5 to 0.9? More reviews are predicted to be positive. Fewer reviews are predicted to be positive. 1 point 9. Consider the metrics obtained from setting the threshold to 0.5 and to 0.9. Does the recall increase with a higher threshold? Yes	0.9	5
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6.

1 point 10. Among all the threshold values tried, what is the **smallest** threshold value that achieves a precision of 96.5% or better? Round your answer to 3 decimal places. 0.838 1 point 11. Using threshold = 0.98, how many **false negatives** do we get on the **test_data**? (**Hint**: You may use the graphlab.evaluation.confusion_matrix function implemented in GraphLab Create.) 5826 point 12. Questions 13 and 14 are concerned with the reviews that contain the word baby.

Among all the threshold values tried, what is the **smallest** threshold value that achieves a precision of 96.5% or better for the reviews of data in **baby_reviews**? Round your answer to 3 decimal places.

0.864

1 point

13.

Questions 13 and 14 are concerned with the reviews that contain the word **baby**.

Is this threshold value smaller or larger than the threshold used for the entire dataset to achieve the same specified precision of 96.5%?

	Larger
	Smaller
<u> </u>	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