1 point	1.	Are you using GraphLab Create? Please make sure that 1. You are using version 1.8.3 of GraphLab Create. Verify the version of GraphLab Create by running
		graphlab.version
		inside the notebook. If your GraphLab version is incorrect, see this post to install version 1.8.3
		This assignment is not guaranteed to work with other versions of GraphLab Create.
		You are using the IPython notebook named module-9-precision-recall-assignment- blank.ipynb obtained from the associated reading.
		This question is ungraded. Check one of the three options to confirm.
		I confirm that I am using the right version of GraphLab Create and the right IPython notebook.
		I am using scikit-learn.
		I am using tools other than GraphLab or scikit-learn, and I understand that I may
		not be able to complete some of the quiz questions.
1	2.	Consider the logistic regression model trained on amazon_baby.gl using GraphLab Create.
point		Using accuracy as the evaluation metric, was our logistic regression model better than the
		majority class classifier? Yes
		O No
1	3.	How many predicted values in the test set are false positives?
point		1443
1	4.	Consider the scenario where each false positive costs \$100 and each false negative \$1.
point		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 1 point	5.	Out of all reviews in the test set that are predicted to be positive, what fraction of them are false positives ? (Round to the second decimal place e.g. 0.25)
		0.05
	6.	Based on what we learned in lecture, if we wanted to reduce this fraction of false positives to
		be below 3.5%, we would:
		Discard a sufficient number of positive predictions
		Discard a sufficient number of negative predictions Increase threshold for predicting the positive class (v. hat = +1)
		Discard a sufficient number of negative predictions Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1)
		Increase threshold for predicting the positive class (y_hat = +1)
1 point	7.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by
1 point	7.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1)
	7.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places.
	7.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places.
point	120	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95
point 1	120	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data ?
1 point	8.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1.0
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point 1 point 1	8.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1.0 What happens to the number of positive predicted reviews as the threshold increased from 0.5 to 0.9?
1 point 1 point	9.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1.0 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.
point 1 point 1	9.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1.0 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.
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1 point 1 point 1	9.	Increase threshold for predicting the positive class (y_hat = +1) Decrease threshold for predicting the positive class (y_hat = +1) What fraction of the positive reviews in the test_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places. 0.95 What is the recall value for a classifier that predicts +1 for all data points in the test_data? 1.0 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. Consider the metrics obtained from setting the threshold to 0.5 and to 0.9. Does the precision increase with a higher threshold? Yes No 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.
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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. 0.863

 $14. \ \ \text{Questions 13 and 14 are concerned with the reviews that contain the word} \ \textbf{baby}.$ 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

point

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