

5/5 points (100%)

Congratulations! You passed!

Next Item



points

 You are working on a spam classification system using regularized logistic regression. "Spam" is a positive class (y = 1) and "not spam" is the negative class (y = 0). You have trained your classifier and there are m = 1000 examples in the cross-validation set. The chart of predicted class vs. actual class is:

	Actual Class: 1	Actual Class: 0
Predicted Class: 1	85	890
Predicted Class: 0	15	10

For reference:

- . Accuracy = (true positives + true negatives) / (total examples)
- Precision = (true positives) / (true positives + false positives)
- Recall = (true positives) / (true positives + false negatives)
- F_1 score = (2 * precision * recall) / (precision + recall)

What is the classifier's accuracy (as a value from 0 to 1)?

Enter your answer in the box below. If necessary, provide at least two values after the decimal



Suppose a massive dataset is available for training a learning algorithm. Training on a lot of data is likely to give good performance when two of the following conditions hold true.

1/1 points

Which are the two?



3. Suppose you have trained a logistic regression classifier which is outputing $h_{ heta}(x)$.

points

Currently, you predict 1 if $h_{ heta}(x) \geq ext{threshold}$, and predict 0 if $h_{ heta}(x) < ext{threshold}$, where currently the threshold is set to 0.5.

Suppose you **increase** the threshold to 0.9. Which of thefollowing are true? Check all that apply.



 $\textbf{4.} \quad \text{Suppose you are working on a spam classifier, where spam}$

points

emails are positive examples (y=1) and non-spam emails are negative examples (y = 0). You have a training set of emails

in which 99% of the emails are non-spam and the other 1% is

spam. Which of the following statements are true? Check all

that apply.



5. Which of the following statements are true? Check all that apply.

1/1



