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## Logistic Regression with L2 regularization

9 questions

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.** 

**2. You are using the IPython notebook** named module-4-linear-classifier-regularization-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.
- O I am using SFrame and NumPy only.
- I am using other tools, and I understand that I may not be able to complete some of the quiz questions.

1 point	
2. In the f regular	function <b>feature_derivative_with_L2</b> , was the intercept term rized?
0	Yes
	ne term with L2 regularization increase or decrease the log and \( \( \( \text{W} \) \)?  Increases  Decreases
	of the following words is <b>not</b> listed in either <b>positive_words</b> or <b>ve_words</b> ?
0	love
0	disappointed
0	great
0	money
0	quality

1 point

5.

Questions 5 and 6 use the coefficient plot of the words in **positive\_words** and **negative\_words**.

**(True/False)** All coefficients consistently get smaller in size as the L2 penalty is increased.

O True

O False

1 point

6.

Questions 5 and 6 use the coefficient plot of the words in **positive\_words** and **negative\_words**.

**(True/False)** The relative order of coefficients is preserved as the L2 penalty is increased. (For example, if the coefficient for 'cat' was more positive than that for 'dog', this remains true as the L2 penalty increases.)

True

False

1 point

7.

Questions 7, 8, and 9 ask you about the 6 models trained with different L2 penalties.

Which of the following models has the **highest** accuracy on the **training** data?

Model trained with L2 penalty = 0

0	Logistic Regression with L2 regularization   Coursera  Model trained with L2 penalty = 4
0	Model trained with L2 penalty = 10
0	Model trained with L2 penalty = 100
0	
0	Model trained with L2 penalty = 1e3
O	Model trained with L2 penalty = 1e5
1 point	
8. Questio penalti	ons 7, 8, and 9 ask you about the 6 models trained with different L2 es.
Which data?	of the following models has the <b>highest</b> accuracy on the <b>validation</b>
0	Model trained with L2 penalty = 0
0	Model trained with L2 penalty = 4
0	Model trained with L2 penalty = 10
0	Model trained with L2 penalty = 100
0	Model trained with L2 penalty = 1e3
0	Model trained with L2 penalty = 1e5

point

9.

Questions 7, 0, and 3 ask you about the o models trained with different LZ penalties.

Does the **highest** accuracy on the **training** data imply that the model is the best one?

O Yes

O No

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