Implementing logistic regression from scratch

9 questions

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1. **Are you using GraphLab Create? Please make sure that**

1 point

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-3-linear-classifier-learning-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 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.

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2. How many reviews in **amazon_baby_subset.gl** contain the word **perfect**?

1 point

2955

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3. Consider the **feature_matrix** that was obtained by converting our data to NumPy format.

1 point

How many features are there in the **feature_matrix**?

194

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4. Assuming that the intercept is present, how does the number of features in **feature_matrix** relate to the number of features in the logistic regression model? Let x = [number of features in feature_matrix] and y = [number of features in logistic regression model].

1 point

- ○ y = x - 1
- ◉ y = x
- ○ y = x + 1
- ○ None of the above

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5. Run your logistic regression solver with provided parameters.

1 point

As each iteration of gradient ascent passes, does the log-likelihood increase or decrease?

- ◉ It increases.
- ○ It decreases.
- ○ None of the above

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6. We make predictions using the weights just learned.

1 point

How many reviews were predicted to have positive sentiment?

25126

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7. What is the accuracy of the model on predictions made above? (round to 2 digits of accuracy)

1 point

0.75

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8. We look at "most positive" words, the words that correspond most strongly with positive reviews.

1 point

Which of the following words is **not** present in the top 10 "most positive" words?

- ○ love
- ○ easy
- ○ great
- ○ perfect
- ◉ cheap

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9. Similarly, we look at "most negative" words, the words that correspond most strongly with negative reviews.

1 point

Which of the following words is **not** present in the top 10 "most negative" words?

- ◉ need
- ○ work
- ○ disappointed
- ○ even
- ○ return

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