



Implementing logistic regression from scratch

9 试题

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 (<https://www.coursera.org/learn/ml-classification/supplement/LgZ3I/installing-correct-version-of-graphlab-create>) 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**?

2955

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3.

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

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].

☐ $y = x - 1$

☒ $y = x$

☐ $y = x + 1$

☐ None of the above

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5.

Run your logistic regression solver with provided parameters.

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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We make predictions using the weights just learned.

6. 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)

0.75

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8.

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

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.

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

- ☐ need
 - ☐ work
 - ☐ disappointed
 - ☐ even
 - ☐ return
-

提交测试

