

Implementing logistic regression from scratch

8 试题

1
point

1.
How many reviews in **amazon_baby_subset.gl** contain the word **perfect**?

2955

1
point

2.
Consider the **feature_matrix** that was obtained by converting our data to NumPy format.

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

194

1
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- 3.

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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4.

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
-

1
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We make predictions using the weights just learned.

5. How many reviews were predicted to have positive sentiment?

25126

1
point

6.

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

0.75

1

point

7.

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
-

1

point

8.

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



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