

Implementing logistic regression from scratch

x

8 questions

1 point

1. How many reviews in `amazon_baby_subset.g1` 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 point

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

1 point

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 point

5. We make predictions using the weights just learned.

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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