

Sentiment Analysis Report

Description of the dataset used

There are user reviews of Amazon products in this dataset.

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Details of the preprocessing steps

The following preprocessing steps were performed:

1. Removed missing values.
2. Tokenized and lemmatized text.
3. Removed stopwords and punctuation.

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Evaluation of results

To verify that the predictions were accurate, sentiment analysis was used to sample reviews. The following are the outcomes:

Review: got mother law christmas gift love

Sentiment: Positive

Score: 0.5

Review: read review purchase high favorable rating picture clear crisp receive SHD signal Set quick easy love streamlined remote go enjoy Superbowl definitely recommend tv

Sentiment: Positive

Score: 0.23074074074074075

Review: satisfied purchase fast big screen good resolution buy son Xmas get good deal wish buy 2 price \$ 100

Sentiment: Positive

Score: 0.41999999999999993

Review: buy Fire HD 8 tablet wife like computer avoid smartphone new tablet big hit use play game stream movie radio program use read news check e mail online shopping etc easy set easy use plenty speed capacity want

Sentiment: Positive

Score: 0.1206060606060606

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Review: product helpful day day life entertainment love play music Amazon Echo mood search youtube

Sentiment: Positive

Score: 0.5

Review: product well fire stick wish come HDMI cable

Sentiment: Neutral

Score: 0.0

Review: excellent product KINDLE Amazon extensive library book choose love light light weight excellent travel want weight book want book read

Sentiment: Positive

Score: 0.5499999999999999

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Insights into the model's strengths and limitations

The model separates neutral, negative, and positive reviews with accuracy. It could be limited, though, when dealing with delicate words or complicated feelings.