Algorithm

1. Input and preprocess text: Take input text and tokenize and preprocess the input text.
2. Word-Level Sentiment Aggregation: Each word or phrase in the text is assigned a sentiment score (polarity value) based on the lexicon used. This score represents the positivity or negativity associated with the word.
3. Aggregating Sentiment Scores for Text:

Where represents the sentiment score of each word in the text, and N is the total number of words. The text polarity score is often computed by averaging the sentiment scores of individual words.

1. Normalization: Sometimes, sentiment scores are normalized to a standardized range (e.g., between -1 to +1). This formula helps normalize the polarity score of the text based on the minimum and maximum possible scores.
2. Sentiment Classification based on Polarity Score:

If polarity score > 0, classify as "Positive".

If polarity score < 0, classify as "Negative".

If polarity score = 0, classify as "Neutral".

1. Stop.