

- [Sentiment Analysis Summary Report](#)
 - [Approach](#)
 - [Challenges Faced](#)
 - [Assumptions Made](#)
 - [Results](#)

Sentiment Analysis Summary Report

Approach

1. **Load the Dataset:** The dataset was loaded from a CSV file using pandas.
2. **Clean the Data:** Any null values were removed. Since there were no unnecessary columns in this dataset, no columns were dropped.
3. **Text Preprocessing:** The text in the reviews was converted to lowercase, and punctuation was removed.
4. **Sentiment Analysis:** The sentiment of each review was analyzed using TextBlob, categorizing them as Positive, Negative, or Neutral.
5. **Summary Report:** The distribution of sentiments was displayed using a bar chart.

Challenges Faced

- **Text Preprocessing:** Ensuring the text was uniformly preprocessed required careful handling of string operations.

Assumptions Made

- **Review Text Column:** It was assumed that the column containing the review text is named `review`.
- **Sentiment Categorization:** Sentiment polarity greater than 0 was considered Positive, less than 0 as Negative, and equal to 0 as Neutral.

Results

The distribution of sentiments was as follows: