# flipkart\_reviews

February 28, 2025

## 1 Flipkart Customer Review Sentiment Analysis

### 2 Web Scraping

Scrap at least 350 reviews from Flipkart website with details including Name, City, Review, Ratings and Review Month and Year

```
[1]: from bs4 import BeautifulSoup
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import time
```

```
[2]: # Initialize WebDriver
     driver = webdriver.Chrome()
     url = "https://www.flipkart.com/apple-iphone-15-blue-128-gb/p/itmbf14ef54f645d?
      ⇒pid=MOBGTAGPAQNVFZZY&lid=LSTMOBGTAGPAQNVFZZYQRLPCQ&marketplace=FLIPKART&q=iphone+15+128+gb&
      \hookrightarrow MOBGTAGPAQNVFZZY.
      -SEARCH&ppt=None&ppn=None&ssid=7a1kpoo6w0000001740650933561&gH=8681ea3cc2c8e660"
     driver.get(url)
     # Wait for page to load
     time.sleep(5)
     # Click the "All Reviews" button
     try:
         review_button = WebDriverWait(driver, 10).until(
             EC.element_to_be_clickable((By.XPATH, "//span[contains(text(),_

¬'All')]"))
         )
         driver.execute_script("arguments[0].click();", review_button)
         print("Clicked the review button successfully!")
         time.sleep(5) # Wait for reviews to load
     except Exception as e:
         print("Failed to click the review button:", e)
         driver.quit()
         exit()
```

```
# Initialize lists to store data
names, reviews, ratings, dates, cities = [], [], [], []
is_last_page = False
# Scrape data
while len(ratings) <= 300:</pre>
    soup = BeautifulSoup(driver.page source, "html.parser")
    # Extract Names
   scrapped_names = soup.find_all("p", class_="_2NsDsF AwS1CA")
   names.extend([name.text.strip() for name in scrapped_names])
    # Extract Reviews
   scrapped_reviews = soup.find_all("div", class_="ZmyHeo")
   for review in scrapped_reviews:
        divs = review.find_all("div")
       reviews.append(divs[1].text.strip())
    # Extract Cities
   scrapped_cities = soup.find_all("p", class_="MztJPv")
   for city in scrapped_cities:
        spans = city.find all("span")
        cities.append(spans[1].text.strip())
    # Extract Ratings
   scrapped_ratings = soup.find_all("div", class_="XQDdHH Ga3i8K")
   ratings.extend([float(rating.text.strip()) for rating in scrapped_ratings])
    # Extract Dates (Filter correct elements)
   scrapped_dates = soup.find_all("p", class_="_2NsDsF")
   for tag in scrapped_dates:
        if "AwS1CA" not in tag.get("class", []):
            dates.append(tag.text.strip())
    # Click "Next" button if available
       next button = WebDriverWait(driver, 5).until(
            EC.element_to_be_clickable(
                (By.XPATH, "//a[@class='_9QVEpD' and span[text()='Next']]")
        driver.execute_script("arguments[0].click();", next_button)
        count += 1
        print(f"Page {count} scraped successfully!")
        time.sleep(3)
```

```
except:
         print("No more pages.")
         is_last_page = True
         driver.quit()
         break
print(f"Collected {len(ratings)} reviews!")
Clicked the review button successfully!
Page 2 scraped successfully!
Page 3 scraped successfully!
Page 4 scraped successfully!
Page 5 scraped successfully!
Page 6 scraped successfully!
Page 7 scraped successfully!
Page 8 scraped successfully!
Page 9 scraped successfully!
Page 10 scraped successfully!
Page 11 scraped successfully!
Page 12 scraped successfully!
Page 13 scraped successfully!
Page 14 scraped successfully!
Page 15 scraped successfully!
Page 16 scraped successfully!
Page 17 scraped successfully!
Page 18 scraped successfully!
Page 19 scraped successfully!
Page 20 scraped successfully!
Page 21 scraped successfully!
Page 22 scraped successfully!
Page 23 scraped successfully!
Page 24 scraped successfully!
Page 25 scraped successfully!
Page 26 scraped successfully!
Page 27 scraped successfully!
Page 28 scraped successfully!
Page 29 scraped successfully!
Page 30 scraped successfully!
Page 31 scraped successfully!
Page 32 scraped successfully!
Page 33 scraped successfully!
Page 34 scraped successfully!
Page 35 scraped successfully!
Page 36 scraped successfully!
Page 37 scraped successfully!
Page 38 scraped successfully!
Page 39 scraped successfully!
Page 40 scraped successfully!
```

```
Page 41 scraped successfully!
    Page 42 scraped successfully!
    Page 43 scraped successfully!
    Page 44 scraped successfully!
    Page 45 scraped successfully!
    Page 46 scraped successfully!
    Page 47 scraped successfully!
    Page 48 scraped successfully!
    Page 49 scraped successfully!
    Collected 301 reviews!
[3]: import pandas as pd
     import os
     # Ensure all lists are of the same length
     max_length = max(len(names), len(reviews), len(ratings), len(dates),__
      →len(cities))
     # Pad lists with None to match max_length
     names.extend([None] * (max_length - len(names)))
     reviews.extend([None] * (max_length - len(reviews)))
     ratings.extend([None] * (max_length - len(ratings)))
     dates.extend([None] * (max_length - len(dates)))
     cities.extend([None] * (max_length - len(cities)))
     # Create DataFrame
     df = pd.DataFrame({
         "name": names,
         "review": reviews,
         "rating": ratings,
         "date": dates,
         "city": cities
     })
     # Create directory if not exists
     os.makedirs("data", exist_ok=True)
     # Generate unique filename
     file_name = f'scrapped_reviews_{time.strftime("%Y%m%d-%H%M%S")}.csv'
     file_path = os.path.join("data", file_name)
     # Save to CSV
     df.to_csv(file_path, index=False)
     print(f"Data saved to {file_path}")
```

Data saved to data\scrapped\_reviews\_20250228-112421.csv

### 3 Data Preprocessing

#### 3.1 Data Cleaning

Removing or replacing null values and perform text preprocessing

```
[5]: df.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 304 entries, 0 to 303
    Data columns (total 5 columns):
         Column
                  Non-Null Count
                                   Dtype
     0
                  304 non-null
                                   object
         name
     1
         review
                  304 non-null
                                   object
     2
         rating
                  301 non-null
                                   float64
     3
         date
                  304 non-null
                                   object
         city
                  304 non-null
                                   object
    dtypes: float64(1), object(4)
    memory usage: 12.0+ KB
     df.shape
[6]: (304, 5)
     df.head(10)
[7]:
                          name
                                                                              review
                                                               High quality camera
     0
                        Ajin V
     1
             Mousam Guha Roy
                                                                           Very nice
     2
                  Nikhil Kumar
                                Switch from OnePlus to iPhone I am stunned wit...
     3
                                 Just go for it. Amazing one. Beautiful camera wi...
                bijaya mohanty
     4
              Prithivi Boruah
                                              Camera Quality Is Improved Loving It
     5
            Flipkart Customer
                                Awesome photography experience. Battery backup...
     6
            Flipkart Customer
                                Using this Iphone 15 from 1month and it has be...
     7
        Sheetla Prasad Maurya
                                Best mobile phoneCamera quality is very nice B...
                                Awesome product very happy to hold this. Bette...
     8
           Arunji Govindaraju
     9
                  Akshay Meena
                                         So beautiful, so elegant, just a vowww
        rating
                          date
                                              city
     0
           5.0
                     Oct, 2023
                                        , Balaghat
           4.0
                     Oct, 2023
     1
                                      , Matialihat
     2
           5.0
                     Jan, 2024
                                 , Meerut Division
     3
           5.0
                  9 months ago
                                       , Baleshwar
     4
           5.0
                     Oct, 2023
                                         , Bokajan
                                          , Aizawl
     5
           5.0
                     Jan, 2024
     6
           5.0
                 10 months ago
                                        , Agartala
     7
           4.0
                     Oct, 2023
                                       , Sultanpur
           5.0
                     Feb, 2024
                                         , Chennai
```

[8]: df.tail(10) [8]: review \ name 294 rajan soni Awesome quality but phone is little heating 295 Kunj Patel Nice phone 296 LAVAKUMARA S The best mobile in India 297 Srinu Customer Premium look and quality with excellent perfor... 298 Sunita Das Battery life is unbelievable 299 Mangesh Sharma Nice phone 300 Nitin Ramrav Kanase Nice products 301 Mayur Sharma Got it in republic day sale however price has ... 302 Diwakar Bhatt Green colour is so elegant so beautiful just 1... 303 Munesh Devi Gud phone rating date city 294 5.0 Feb, 2024 , Darbhanga District 295 5.0 Feb, 2024 , Ahmedabad 296 5.0 Feb, 2024 , Chitradurga District 297 5.0 Feb, 2024 , Mandapeta 298 5.0 Jan, 2024 , Erashal 299 4.0 Jan, 2024 , Chauparan 300 5.0 Jan, 2024 , Karad 301 NaN Jan, 2024 , Kota 302 NaN 9 months ago , Bijapur District 303 NaN Jan, 2024 , Saharanpur [9]: df.describe() [9]: rating 301.000000 count mean 4.877076 std 0.376173 min 3.000000 25% 5.000000 50% 5.000000 75% 5.000000 5.000000 max[15]: pdf = df.copy() # Remove duplicates pdf.drop\_duplicates(inplace=True) # Titlise the names column pdf["name"] = pdf["name"].str.title()

, Jaipur

9

5.0

Nov, 2023

```
pdf["rating"] = pdf["rating"].fillna(round(pdf["rating"].mean(), 1))
      # Remove ',' from city column
      pdf["city"] = pdf["city"].str.replace(",", "").str.capitalize().str.strip()
[16]: # Check after cleaning data
      pdf.head(10)
                                                                               review
[16]:
                           name
                         Ajin V
                                                                High quality camera
      0
      1
              Mousam Guha Roy
                                                                            Very nice
      2
                   Nikhil Kumar
                                 Switch from OnePlus to iPhone I am stunned wit...
      3
                Bijaya Mohanty
                                  Just go for it. Amazing one. Beautiful camera wi...
                                               Camera Quality Is Improved Loving It
      4
               Prithivi Boruah
      5
                                 Awesome photography experience. Battery backup...
             Flipkart Customer
      6
             Flipkart Customer
                                 Using this Iphone 15 from 1month and it has be...
      7
         Sheetla Prasad Maurya
                                 Best mobile phoneCamera quality is very nice B...
                                 Awesome product very happy to hold this. Bette...
      8
            Arunji Govindaraju
      9
                   Akshay Meena
                                          So beautiful, so elegant, just a vowww
         rating
                           date
                                             city
            5.0
                      Oct, 2023
      0
                                         balaghat
            4.0
                      Oct, 2023
      1
                                       matialihat
      2
            5.0
                      Jan, 2024
                                 meerut division
                   9 months ago
      3
            5.0
                                        baleshwar
      4
            5.0
                      Oct, 2023
                                          bokajan
      5
            5.0
                      Jan, 2024
                                           aizawl
      6
            5.0
                  10 months ago
                                         agartala
      7
            4.0
                      Oct, 2023
                                        sultanpur
                      Feb, 2024
      8
            5.0
                                          chennai
                      Nov, 2023
      9
            5.0
                                           jaipur
[17]:
     pdf.tail(10)
[17]:
                                                                               review \
                           name
      294
                     Rajan Soni
                                        Awesome quality but phone is little heating
                     Kunj Patel
      295
                                                                         Nice phone
      296
                   Lavakumara S
                                                            The best mobile in India
      297
                 Srinu Customer
                                 Premium look and quality with excellent perfor...
      298
                     Sunita Das
                                                        Battery life is unbelievable
      299
                Mangesh Sharma
                                                                          Nice phone
      300
           Nitin Ramrav Kanase
                                                                        Nice products
      301
                   Mayur Sharma
                                 Got it in republic day sale however price has ...
      302
                 Diwakar Bhatt
                                 Green colour is so elegant so beautiful just 1...
      303
                    Munesh Devi
                                                                            Gud phone
```

# Replace missing ratings with mean

```
294
                       Feb, 2024
              5.0
                                    darbhanga district
      295
              5.0
                       Feb, 2024
                                              ahmedabad
                       Feb, 2024
      296
              5.0
                                  chitradurga district
      297
              5.0
                       Feb, 2024
                                              mandapeta
      298
              5.0
                       Jan, 2024
                                                erashal
      299
              4.0
                       Jan, 2024
                                              chauparan
      300
              5.0
                       Jan, 2024
                                                  karad
      301
              4.9
                       Jan, 2024
                                                   kota
      302
              4.9
                   9 months ago
                                      bijapur district
                       Jan, 2024
      303
              4.9
                                             saharanpur
[19]: from dateutil.relativedelta import relativedelta
      from datetime import datetime
      def convert_to_date(date_str):
          if 'ago' in date_str:
              date = datetime.today() - relativedelta(months=int(date_str.split()[0]))
              return date.strftime("%b %Y")
          return date str
      # Modify date column
      pdf['date'] = pdf['date'].apply(convert_to_date)
      pdf.head(10)
[19]:
                                                                              review
                           name
      0
                         Ajin V
                                                                High quality camera
      1
              Mousam Guha Roy
                                                                           Very nice
      2
                  Nikhil Kumar
                                 Switch from OnePlus to iPhone I am stunned wit...
      3
                Bijaya Mohanty
                                 Just go for it. Amazing one. Beautiful camera wi...
      4
               Prithivi Boruah
                                               Camera Quality Is Improved Loving It
      5
             Flipkart Customer
                                 Awesome photography experience. Battery backup...
                                 Using this Iphone 15 from 1month and it has be...
      6
             Flipkart Customer
      7
         Sheetla Prasad Maurya
                                 Best mobile phoneCamera quality is very nice B...
                                 Awesome product very happy to hold this. Bette...
      8
            Arunji Govindaraju
      9
                   Akshay Meena
                                          So beautiful, so elegant, just a vowww
         rating
                       date
                                        city
                 Oct, 2023
      0
            5.0
                                    balaghat
                 Oct, 2023
      1
            4.0
                                  matialihat
      2
            5.0
                 Jan, 2024
                             meerut division
      3
            5.0
                  May 2024
                                   baleshwar
      4
            5.0 Oct, 2023
                                     bokajan
      5
            5.0
                 Jan, 2024
                                      aizawl
      6
            5.0
                  Apr 2024
                                    agartala
      7
            4.0 Oct, 2023
                                   sultanpur
            5.0 Feb, 2024
                                     chennai
      8
```

city

date

rating

#### 3.2 Text Preprocessing

Cleaning and transforming text data by removing noise

```
[31]: import nltk
      import string
      import emoji
      from textblob import TextBlob as tb
      from nltk.corpus import stopwords
      from nltk.tokenize import word_tokenize
      from nltk.stem import WordNetLemmatizer
      from wordcloud import WordCloud
      nltk.download('punkt')
      nltk.download('punkt_tab')
      nltk.download('stopwords')
      nltk.download('wordnet')
     [nltk_data] Downloading package punkt to
                      C:\Users\azamm\AppData\Roaming\nltk_data...
     [nltk_data]
     [nltk_data]
                    Package punkt is already up-to-date!
     [nltk_data] Downloading package punkt_tab to
     [nltk data]
                      C:\Users\azamm\AppData\Roaming\nltk data...
     [nltk data]
                    Package punkt_tab is already up-to-date!
     [nltk data] Downloading package stopwords to
     [nltk data]
                      C:\Users\azamm\AppData\Roaming\nltk_data...
     [nltk data]
                    Package stopwords is already up-to-date!
     [nltk_data] Downloading package wordnet to
     [nltk_data]
                      C:\Users\azamm\AppData\Roaming\nltk_data...
                    Package wordnet is already up-to-date!
     [nltk_data]
[31]: True
[32]: def preprocess text(text: str):
          text = text.strip() # Remove leading/trailing whitespaces
          text = tb(text).correct().raw # Correct spelling
          text = text.lower() # Convert to lowercase
          text = emoji.demojize(text) # Convert emojis to text
          text = text.translate(str.maketrans('', '', string.punctuation)) # Remove_
       \rightarrowpunctuation
          text = word tokenize(text) # Tokenize
          text = [word for word in text if word not in stopwords.words('english')] #__
       \hookrightarrowRemove stopwords
          lemmatizer = WordNetLemmatizer()
```

```
tokens = [lemmatizer.lemmatize(word) for word in text] # Lemmatize
          return ' '.join(tokens)
[33]: pdf['cleaned_review'] = pdf['review'].astype(str).apply(preprocess_text)
      pdf.head(10)
[33]:
                           name
                                                                              review
      0
                         Ajin V
                                                                High quality camera
      1
                     Guha Roy
                                                                           Very nice
              Mousam
      2
                                 Switch from OnePlus to iPhone I am stunned wit...
                  Nikhil Kumar
      3
                Bijaya Mohanty
                                 Just go for it. Amazing one. Beautiful camera wi...
      4
               Prithivi Boruah
                                               Camera Quality Is Improved Loving It
      5
             Flipkart Customer
                                 Awesome photography experience. Battery backup...
      6
             Flipkart Customer
                                 Using this Iphone 15 from 1month and it has be...
      7
         Sheetla Prasad Maurya
                                 Best mobile phoneCamera quality is very nice B...
      8
            Arunji Govindaraju
                                 Awesome product very happy to hold this. Bette...
      9
                  Akshay Meena
                                          So beautiful, so elegant, just a vowww
         rating
                       date
                                        city \
                 Oct, 2023
      0
            5.0
                                    balaghat
            4.0 Oct, 2023
      1
                                  matialihat
      2
            5.0
                 Jan, 2024
                             meerut division
      3
                  May 2024
            5.0
                                   baleshwar
      4
            5.0 Oct, 2023
                                     bokajan
      5
                 Jan, 2024
            5.0
                                      aizawl
      6
            5.0
                  Apr 2024
                                    agartala
      7
            4.0 Oct, 2023
                                   sultanpur
                 Feb, 2024
      8
            5.0
                                     chennai
      9
            5.0
                 Nov, 2023
                                      jaipur
                                              cleaned_review
      0
               high quality camerasmilingfacewithhearteyes
      1
                                                        nice
      2
         twitch oneplus shone stunned camera performanc...
         must go itamazing onebeautiful camera super fa...
      3
      4
                             camera quality improved moving
      5
         awesome photography experience battery back go...
                           using phone 15 month best camera
      7
         west mobile phonecamera quality nice battery b...
         awesome product happy hold letter hand feelmat...
         beautiful elegant www.smilingfacewithhearteyesr...
[34]: def classify_polarity(polarity: float):
          if polarity > 0.75:
              return "Very Positive"
          elif polarity <= 0.75:</pre>
```

```
return "Positive"
          elif polarity == 0:
              return "Neutral"
          elif polarity >= -0.75:
              return "Negative"
          else:
              return "Very Negative"
[35]: pdf['polarity'] = pdf['cleaned_review'].apply(lambda text: tb(text).sentiment.
       →polarity)
      pdf['sentiment'] = pdf['polarity'].apply(classify_polarity)
      pdf.head(10)
[35]:
                           name
                                                                              review
      0
                        Ajin V
                                                               High quality camera
                                                                           Very nice
      1
              Mousam Guha Roy
      2
                  Nikhil Kumar
                                 Switch from OnePlus to iPhone I am stunned wit...
      3
                Bijaya Mohanty
                                 Just go for it. Amazing one. Beautiful camera wi...
      4
               Prithivi Boruah
                                              Camera Quality Is Improved Loving It
      5
                                 Awesome photography experience. Battery backup...
             Flipkart Customer
      6
             Flipkart Customer
                                 Using this Iphone 15 from 1month and it has be...
      7
         Sheetla Prasad Maurya
                                 Best mobile phoneCamera quality is very nice B...
                                 Awesome product very happy to hold this. Bette...
      8
            Arunji Govindaraju
      9
                  Akshay Meena
                                         So beautiful, so elegant, just a vowww
         rating
                      date
                                        city
                 Oct, 2023
      0
            5.0
                                    balaghat
      1
            4.0
                 Oct, 2023
                                  matialihat
      2
            5.0
                 Jan, 2024
                            meerut division
      3
            5.0
                 May 2024
                                   baleshwar
      4
            5.0 Oct, 2023
                                     bokajan
      5
            5.0
                 Jan, 2024
                                      aizawl
      6
            5.0
                  Apr 2024
                                    agartala
      7
            4.0 Oct, 2023
                                   sultanpur
      8
            5.0
                 Feb, 2024
                                     chennai
      9
            5.0
                 Nov, 2023
                                      jaipur
                                             cleaned_review polarity
                                                                             sentiment
      0
               high quality camerasmilingfacewithhearteyes
                                                              0.160000
                                                                              Positive
      1
                                                        nice 0.600000
                                                                              Positive
      2
         twitch oneplus shone stunned camera performanc... 1.000000
                                                                     Very Positive
         must go itamazing onebeautiful camera super fa... 0.266667
                                                                           Positive
      3
      4
                             camera quality improved moving 0.000000
                                                                              Positive
      5
         awesome photography experience battery back go... 0.550000
                                                                            Positive
      6
                           using phone 15 month best camera 1.000000 Very Positive
      7
         west mobile phonecamera quality nice battery b... 0.340000
                                                                           Positive
         awesome product happy hold letter hand feelmat... 0.604167
                                                                           Positive
```

9 beautiful elegant www.smilingfacewithhearteyesr... 0.675000 Positive

```
[40]: file_name = f'cleaned_reviews_{time.strftime("%Y%m%d-%H%M%S")}.csv'
file_path = os.path.join("data", file_name)
pdf.to_csv(file_path, index=False)
print(f"Data saved to {file_path}")
```

Data saved to data\cleaned\_reviews\_20250228-123948.csv

## 4 Data Analysis and Insights

```
[36]: import matplotlib.pyplot as plt import seaborn as sns
```

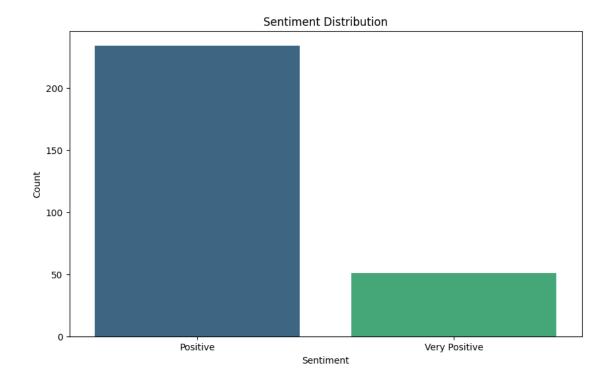
#### 4.1 Sentiment Distribution

```
[41]: plt.figure(figsize=(10, 6))
    sns.countplot(data=pdf, x='sentiment', palette='viridis')
    plt.title("Sentiment Distribution")
    plt.xlabel("Sentiment")
    plt.ylabel("Count")
    plt.show()
```

C:\Users\azamm\AppData\Local\Temp\ipykernel\_18880\2800122586.py:2:
FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

sns.countplot(data=pdf, x='sentiment', palette='viridis')

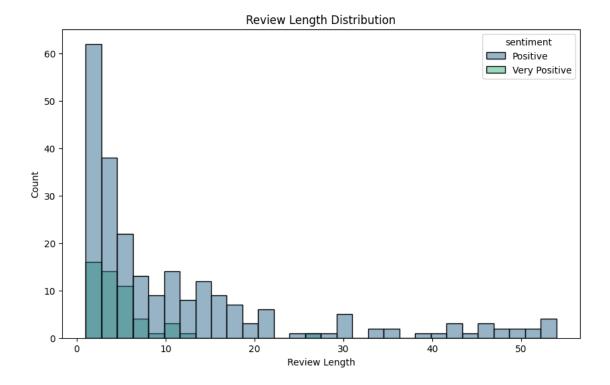


This bar chart represents the distribution of sentiments among customer reviews for the iPhone 15.

- Positive reviews are the majority.
- Very Positive reviews are significantly fewer.

The analysis suggests that while most users are satisfied, only a smaller portion express extreme positivity.

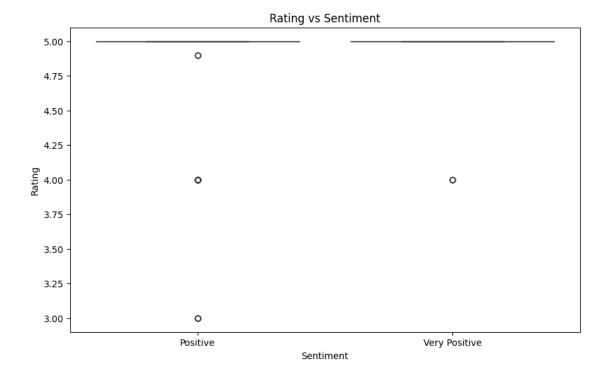
### 4.2 Review Length vs Sentiment



- Shorter reviews are more common, with the highest frequency near very short lengths.
- Positive reviews dominate the dataset.
- Very Positive reviews tend to be slightly longer but still follow a similar pattern.

This suggests that most customers express their opinions concisely.

### 4.3 Ratings vs Avg Polarity



- Positive Sentiment: Ratings mostly range from 3 to 5, with a concentration around 5.
- Very Positive Sentiment: Ratings are almost entirely 4 and 5, indicating stronger satisfaction.

This suggests that "Very Positive" reviews are strongly associated with higher ratings, while "Positive" reviews have a slightly broader range.

## 5 Sentiment Analysis Report

#### 5.1 Overview

This report provides insights into customer sentiment based on review length and rating distributions. The dataset categorizes sentiment into "Positive" and "Very Positive" to analyze their characteristics.

#### 5.2 1. Review Length Distribution

#### 5.2.1 Key Observations:

- Most reviews are short, with a high concentration between **1-10 words**.
- "Very Positive" reviews tend to be slightly longer than "Positive" reviews.
- The frequency of reviews decreases as length increases, following a right-skewed distribution.

#### 5.3 2. Rating vs Sentiment

### 5.3.1 Key Observations:

- "Very Positive" reviews are highly concentrated around ratings of 5, with occasional 4s.
- "Positive" reviews show a broader distribution, including ratings of 3, 4, and 5.
- There is a clear distinction: higher ratings are strongly correlated with "Very Positive" sentiment.

#### 5.4 Conclusion

- Customers who leave **shorter reviews** are more frequent, but the length does not necessarily correlate with higher ratings.
- Very Positive sentiment aligns closely with a 5-star rating, whereas "Positive" sentiment has some variability.
- Businesses can use this analysis to better understand customer sentiment and improve services accordingly.

#### 5.5 Recommendations

- Encourage customers to leave detailed feedback to gain deeper insights.
- Identify the factors driving "Positive" but not "Very Positive" ratings to improve customer satisfaction.