

# webscraping-bliend

November 11, 2024

```
[82]: import requests
      from bs4 import BeautifulSoup
      import pandas as pd
```

```
[86]: import requests
      from bs4 import BeautifulSoup

      url = "https://uzhavarbumi.com/reviews"

      headers = {
          'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36_
          ↪(KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36'
      }

      response = requests.get(url, headers=headers)

      if response.status_code == 200:
          # Parse the HTML content using BeautifulSoup
          soup = BeautifulSoup(response.content, 'html.parser')

          reviews = soup.find_all('div', class_='card-body')

          for review in reviews:

              name = review.find('span', class_='card-title mb-5').
              ↪get_text(strip=True)

              review_text = review.find('p', class_='card-text pb-4').
              ↪get_text(strip=True)

              print(f"Reviewer: {name}")
```

```
print(f"Review: {review_text}")
print('-' * 80)

else:
    print(f"Failed to retrieve the page. Status code: {response.status_code}")
```

Reviewer: Sasi Mohan

Review: I am very happy to share this information eventhough I have been knowing this product for a quite while. But after being a customer of Uzhavarbhumi for past 15 days, I feel it's very worth for the cost to buy milk from them. On-time delivery, the freshness of milk that apt for the kids(Mostly the breakfast for early school going kids), and I am super excited when I tried the curd, it is very thick and tasty. Yet to try Ghee, Paneer which I am damn sure it will be very good. Thanks Uzhavarbhumi for being the part of our life!!!

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Reviewer: RamaKalpana KaviKumar

Review: Good Quality of Milk and reasonably delivery fee also. Easy to use app and wallet amount can't be refundable is somewhat is not okay.

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Reviewer: Sangavi Jambu

Review: Good quality milk, I give this milk to my child also. Very healthy and tasty comparing store bought packet milk. Thank you for the milk.

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Reviewer: Aadhirai

Review: Good quality milk they provide. They also Quickly respond to the feedbacks and queries. I would recommend Uzhavarbumi at any cost.

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Reviewer: Bala venkat

Review: I am buying milk for the past one month. Milk payment and accounting very perfect. If any issues if we raise feedback they resolve very very quickly. I strongly recommend to all my friends and family.

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Reviewer: Muralinath

Review: We are customers for after trying various brands and i would say this is the best.The milk is thick and we do make ghee from the accumulated butter ... Overall this is best.The customer care and team are very helpful including the delivery team.Keep up the good work.

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Reviewer: Jeseema Fathima

Review: Milk quality is so good, my 2year old baby loves it, it's not smells like other cow milk, Overall delivery, service, everything is so good, hassle free payment method, if I return to Chennai I'll definitely buy from you, I referred to some of my friends, thanks for your service.

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Reviewer: Krish

Review: For last two months buying milk from uzhavar bumi.. we thought of exploring their products since I like the quality of milk they provide. As part

of that recently bought eggs from Uzhavarbumi App. To my surprise the quality of eggs and packing was so good. I loved it and my son as well. Adding to that I tried their palkova as well which is delicious.

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Reviewer: Krishna Seshu

Review: I have been buying Milk from Uzhavar Bhumi since the effect of Covid. .so approximately 2 years and I would say this as the Best of Best in Chennai especially!! I have never bought Ghee in all these days as I get Ghee from the Milk Butter itself!!

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Reviewer: Yuvarani Veerabadrinath

Review: It is very pure and tasty cow milk. I can get the same taste which we used to drink in our village.

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Reviewer: Panduranga Raj

Review: Pure country cow milk and products made are of excellent quality and taste. These products are very good for health too. Deserves all appreciations.

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Reviewer: Dr. Haleeth Ibrahim

Review: Yay! Excellent!! The taste is always unique and they maintain the aroma of milk. Instructions to maintain the storage is great idea. Daily check report on quality of milk is the other area which is very attractive. Congratulations entire Team.

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Reviewer: Mohan babu malairaj

Review: We get the milk delivery regularly by morning..Also the ghee turns to be dark yellow and pure aroma. The app is good in amount deduction. If any questions raised to them through whats app like why amount deducted they clearly explain us and makes us to understand. If any extra amount debited them by mistake they even credit the same amount to our wallet good customer service..Thanks a lot for providing pure milk for the kids. Keep up the excellent service.

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Reviewer: Naresh Kumar S

Review: Very Pure Cow Milk am getting from Uzhavarbumi with on time delivery before 6am Lot of brand milk i used before but Uzhavarbumi is better than all Many Honey brand i used before 99% u can feel some Syrup taste but Uzhavarbumi's Honey showing is best purity Tanx a lot for such a Wonderful products providing All products r very reasonable price and worth purchase All d very best Team keep Rocking .

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Reviewer: Poonthalir Rakesh

Review: I have been using this cow milk from uzhavarbumi for about 6 months, The milk is very pure and is very tasty and contains full fat. I collect the cream layer and make ghee from that and it tastes divine. Like the customer service they are very prompt in replying and very polite, and the delivery of milk is on time. Great work team Uzhavarbumi, do continue the same service.

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Reviewer: Rudhra Shankar

Review: I have no habit of drinking coffee or tea but after purchasing the milk from UB that thickness and consistency of milk made me to taste coffee daily morning thank u UB and your service is simply awesome keep goinh guys.

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Reviewer: Akila V

Review: Generally delivery is on time. Milk quality is excellent. Our experience of over a few years has been fairly reliable.

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Reviewer: Dr.Pravin kumar

Review: I subscribed for the cow milk and the process is very simple and user friendly. Their products are very reasonable. Cow Milk is pure, creamy, rich and tasty. It comes in clean bottles which is home delivered to you. You can request the delivery pattern as per your requirement, eg. Everyday or alternate days or any other pattern. Good product and service, highly recommended.

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Reviewer: Anitha B

Review: Being a Part of UB for past 2 years and the milk is very good. Especially the madipakkam team put great effort in delivering it promptly. During the lockdown also they did a great job. Nivar cyclone also didn't stop their work. Congrats to the team and Especially Vignesh.

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Reviewer: Surya Appu

Review: Hi, we happy to suggest uzharvar boomi cows milk which was favourite for my 3 and 1 yr kids. I personally verified as pure and hygiene. Delivery was perfect on time that too in covid and rainy days.we are glad that ub has crossed successfully 1234days. And sure it will reach high. Surya ramakrishnan and family.

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Reviewer: Priya Dharshini

Review: I am very happy that this venture is taking efforts to bring back organic milk rather than adulterated ones. Thankyou.

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Reviewer: Abinash Ujjay

Review: Your super good, your milk production is also good you adopt E wehicle that is very very good do this to your all whicle, supply your milk production to the all areas, do this eco friendly things thank you team

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Reviewer: Akila Kunalan

Review: Congratulations Being a content customer of uzharvarboomi more than a year ... Thank you to all the people who make it all the way home everyday despite daily issues ... This has made us partially self sustained ,not only usage as milk but preparing curd,butter,ghee from the milk purchased we are almost back to the days where we had fresh cows milk from our neighborhood ... ..a recent addition to the list would be home made creamy creamy icecream as well ..heratfelt thanks to the entire team of uzharvarboomi and a very happy anniversary as well .

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Reviewer: Arun Prasath

Review: Good quality of milk and friendly service. They never hesitate to provide extra if require even on the same day. Thanks and keep pushing your limits.

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Reviewer: Aparna ganesh

Review: Being a customer for 3 years...the quality of milk and taste of milk is good and very consistent...Other products of UB is also good and worthy...

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Reviewer: Haripriya Mahadevan

Review: Palkova was Awesome ..very perfect taste nd freshness maintained.. its just like frm our grandma's homemade sweet ..My whole family loved nd relished it.. thankyou.

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Reviewer: Ranjani G

Review: It is the fresh milk trade company...they give the fresh milk what people expecting quality like thickness of milk,taste,and quality..i also realize when i had a coffee in this company..because it is very tasty and different from packet milk

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Reviewer: Divya Shankar

Review: Good and pure milk. Good service, timely delivery. Easy access of subscription via app. Would recommend to friends and family

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Reviewer: Vedavalli Sankaranarayanan

Review: Milk quality is so nice. Very easy to order and schedule our purchase through APP. Delivery time also very prompt

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Reviewer: Kowsalya R

Review: Milk Quality is good. Milk provided in glass bottle. Very good initiative for environment eco friendly. Keep it up

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```
[37]: # Total number of reviews
total_reviews = len(reviews)
print(f"Total number of reviews: {total_reviews}")
```

Total number of reviews: 30

```
[88]: import requests
from bs4 import BeautifulSoup
import pandas as pd

url = "https://uzhavarbumi.com/reviews"

headers = {
```

```

        'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36_
        ↪(KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36'
    }

response = requests.get(url, headers=headers)

if response.status_code == 200:

    soup = BeautifulSoup(response.content, 'html.parser')

    reviews = soup.find_all('div', class_='card-body')

    reviewers = []
    review_texts = []

    for review in reviews:

        reviewer_name = review.find('span', class_='card-title mb-5').
        ↪get_text(strip=True)

        review_text = review.find('p', class_='card-text pb-4').
        ↪get_text(strip=True)

        reviewers.append(reviewer_name)
        review_texts.append(review_text)

    reviews_df = pd.DataFrame({
        'Reviewer': reviewers,
        'Review': review_texts
    })

    reviews_df.to_excel('customer_reviews.xlsx', index=False)
    print("Reviews saved to 'customer_reviews.xlsx' successfully.")
else:
    print(f"Failed to retrieve the page. Status code: {response.status_code}")

```

Reviews saved to 'customer\_reviews.xlsx' successfully.

```

[47]: from IPython.display import FileLink

      # link to download the file
      FileLink(r'customer_reviews.xlsx')

```

[47]: C:\Users\divaa\customer\_reviews.xlsx

```
[90]: import pandas as pd

file_path = r'C:\Users\divaa\Downloads\customer_reviews.xlsx'
df = pd.read_excel(file_path)

df.head()
```

```
[90]:
```

	Reviewer	Review
0	Sasi Mohan	I am very happy to share this information even...
1	RamaKalpana KaviKumar	Good Quality of Milk and reasonably delivery f...
2	Sangavi Jambu	Good quality milk, I give this milk to my chil...
3	Aadhirai	Good quality milk they provide. They also Quic...
4	Bala venkat	I am buying milk for the past one month. Milk ...

```
[92]: df.isnull().sum()
```

```
[92]: Reviewer    0
Review         0
dtype: int64
```

```
[100]: from textblob import TextBlob

def get_sentiment(review):

    analysis = TextBlob(review)

    return analysis.sentiment.polarity # Returns a value between -1 and 1

df['Sentiment'] = df['Review'].apply(get_sentiment)

df.head()
```

```
[100]:
```

	Reviewer	Review \	Sentiment
0	Sasi Mohan	I am very happy to share this information even...	0.359905
1	RamaKalpana KaviKumar	Good Quality of Milk and reasonably delivery f...	0.270833
2	Sangavi Jambu	Good quality milk, I give this milk to my chil...	0.675000
3	Aadhirai	Good quality milk they provide. They also Quic...	0.516667
4	Bala venkat	I am buying milk for the past one month. Milk ...	0.394444

```

[112]: import pandas as pd
from textblob import TextBlob
from wordcloud import WordCloud
import matplotlib.pyplot as plt
from nltk.corpus import stopwords
import nltk

# Download stopwords
nltk.download('stopwords')
stop_words = set(stopwords.words('english'))

# Load the Excel file
reviews_df = pd.read_excel('customer_reviews.xlsx')

# Lists to store sentiment analysis results
sentiments = []

# Loop through each review and perform sentiment analysis using TextBlob
for review in reviews_df['Review']:
    blob = TextBlob(review)
    sentiment = blob.sentiment.polarity # Get the polarity (-1 to 1)
    sentiments.append(sentiment)

# Add sentiment results to the DataFrame
reviews_df['Sentiment'] = sentiments

# Save the updated DataFrame with sentiment to Excel
reviews_df.to_excel('customer_reviews_with_sentiment.xlsx', index=False)
print("Sentiment analysis added and saved to 'customer_reviews_with_sentiment.
    ↳xlsx'.")

# Perform Content Analysis (Word Cloud)
all_reviews_text = ' '.join(reviews_df['Review'])

# Remove stopwords
filtered_words = ' '.join([word for word in all_reviews_text.split() if word.
    ↳lower() not in stop_words])

# Generate a word cloud
wordcloud = WordCloud(width=800, height=400, background_color='white').
    ↳generate(filtered_words)

# Display the word cloud using matplotlib
plt.figure(figsize=(10, 5))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.show()

```



```
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\divaa\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

Sentiment analysis added and saved to 'customer\_reviews\_with\_sentiment.xlsx'.



```
[117]: import pandas as pd
from collections import Counter
from nltk.corpus import stopwords
import nltk
import string

# Download stopwords
nltk.download('stopwords')
stop_words = set(stopwords.words('english'))

# Load the Excel file
reviews_df = pd.read_excel('customer_reviews.xlsx')

# Convert all reviews to strings
reviews_df['Review'] = reviews_df['Review'].astype(str)

# Combine all reviews into one large text
all_reviews_text = ' '.join(reviews_df['Review'])

# Tokenize and clean the text
words = all_reviews_text.split() # Split the text into individual words
words = [word.lower() for word in words] # Convert all words to lowercase
words = [word for word in words if word not in stop_words] # Remove stopwords
```

```

words = [word.translate(str.maketrans('', '', string.punctuation)) for word in words] # Remove punctuation
words = [word for word in words if word.isalpha()] # Keep only alphabetic words

# Calculate word frequency
word_freq = Counter(words)

# Get the 10 most common words
most_common_words = word_freq.most_common(10)

# Display the most common words and their frequency
print("Most common words and their frequencies:")
for word, freq in most_common_words:
    print(f"{word}: {freq}")

```

Most common words and their frequencies:

```

milk: 50
good: 23
quality: 14
delivery: 12
also: 9
service: 9
pure: 9
team: 8
cow: 7
products: 7

```

```

[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\divaa\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!

```

```

[119]: from textblob import TextBlob
reviews_df['Review'] = reviews_df['Review'].astype(str)
sentiments = []

# Loop through each review and perform sentiment analysis using TextBlob
for review in reviews_df['Review']:
    blob = TextBlob(review)
    sentiment = blob.sentiment.polarity # Get the polarity (-1 to 1)
    sentiments.append(sentiment)

# Add sentiment results to the DataFrame
reviews_df['Sentiment'] = sentiments

# Classify the sentiment as Positive, Neutral, or Negative
reviews_df['Sentiment_Class'] = reviews_df['Sentiment'].apply(
    lambda x: 'Positive' if x > 0 else ('Neutral' if x == 0 else 'Negative')
)

```

```

# Count the number of Positive, Neutral, and Negative reviews
sentiment_counts = reviews_df['Sentiment_Class'].value_counts()

# Display the counts
print("Sentiment Counts:")
print(sentiment_counts)

# Save the updated DataFrame with sentiment classification to Excel
reviews_df.to_excel('customer_reviews_with_sentiment_class.xlsx', index=False)
print("Sentiment analysis and classification added and saved to_
↳ 'customer_reviews_with_sentiment_class.xlsx'.")

```

```

Sentiment Counts:
Sentiment_Class
Positive      30
Name: count, dtype: int64
Sentiment analysis and classification added and saved to
'customer_reviews_with_sentiment_class.xlsx'.

```