

# Data Scrapping of Snapchat

```
result = app(
    'com.snapchat.android',
    lang='en',
    country='pk'
)
print(result)
```

```
{'title': 'Snapchat', 'description': "Snapchat is a fast and fun way to s
hare the moment with your friends and family 🧙\r\n\r\nSNAP \r\n• Snapch
at opens right to the Camera – just tap to take a photo, or press and hol
d for video.\r\n• Express yourself with Lenses, Filters, Bitmoji and mor
e! \r\n• Try out new Lenses daily created by the Snapchat community!\r\n
\r\nCHAT \r\n• Stay in touch with friends through live messaging, or shar
e your day with Group Stories.\r\n• Video Chat with up to 16 friends at o
nce – you can even use Lenses and Filters when chatting!\r\n• Express you
rself with Friendmojis – exclusive Bitmoji made just for you and a frien
d.\r\n\r\nSTORIES\r\n• Watch friends' Stories to see their day unfold.\r
\r\n• See Stories from the Snapchat community that are based on your intere
sts.\r\n• Discover breaking news and exclusive Original Shows.\r\n\r\nSPO
TLIGHT\r\n• Spotlight showcases the best of Snapchat!\r\n• Submit your ow
n Snaps or sit back, relax, and watch.\r\n• Pick your favorites and share
them with friends.\r\n\r\nMAP \r\n• Share your location with your best fr
iends or go off the grid with Ghost Mode.\r\n• See what your friends are
up to on your most personal map when they share their location with you.
\r\n• Explore live Stories from the community nearby or across the world!
\r\n\r\nMEMORIES \r\n• Save unlimited photos and videos of all your favor
```

```
result.keys()
```

```
dict_keys(['title', 'description', 'descriptionHTML', 'summary', 'installs',
'minInstalls', 'realInstalls', 'score', 'ratings', 'reviews', 'histogram',
'price', 'free', 'currency', 'sale', 'saleTime', 'originalPrice', 'saleTex
t', 'offersIAP', 'inAppProductPrice', 'developer', 'developerId', 'developer
Email', 'developerWebsite', 'developerAddress', 'privacyPolicy', 'genre', 'g
enreId', 'categories', 'icon', 'headerImage', 'screenshots', 'video', 'video
Image', 'contentRating', 'contentRatingDescription', 'adSupported', 'contain
sAds', 'released', 'lastUpdatedOn', 'updated', 'version', 'comments', 'appI
d', 'url'])
```

## Now Getting the data

```
In [68]: result = search("Snapchat", lang="en", country="pk")
result
```

```
Out[68]: [{"appId": "com.snapchat.android",
  'icon': 'https://play-lh.googleusercontent.com/KxeSAjPTKliCErbivNiXrd6c
TwfbqUJcbSRPe_IBVK_YmwckfMRS1VIHz-5cgT09yMo',
  'screenshots': ['https://play-lh.googleusercontent.com/xKCYMMuIshGmxLVc
kXnGYsdorvBxF0oI58Yt82Vkj_cn3Dby52gdrt4Lmr7BTYiVvw',
    'https://play-lh.googleusercontent.com/yoN8h1j4M0Axx1UK2-iyPOmlQmIHqZ1
t08p7PjRicfmyPxj3-rztyB3YImG58zeMvOI',
    'https://play-lh.googleusercontent.com/3KtSEofVcRIQUWQnq814EYI7xo61uD6
Cg1tvWdYTPUXweFMjv7HkA9b9FVmt3zYDkSau',
    'https://play-lh.googleusercontent.com/CHV1Yg5KonaNU_HHXG_Iol6zn7bAQ0b
0o868LTPyh9bCLOZDu0GM8EJxBQ4zTcmfy90',
    'https://play-lh.googleusercontent.com/Mbz03v3wiyrsITveiF4U09dj_XNo1Wp
Gw7ZoTSISZZmu3Nl1fu1uuDK3k-WwmaLJYWY',
    'https://play-lh.googleusercontent.com/OfIjocrhVT1G54fmxhNKm9mhNa2bQ00
ryyxiWc2Wk6AAcCZheJ7JTtNhusl9G_c5lQ',
    'https://play-lh.googleusercontent.com/Bj1VhBkftmSTR7VxeWV0IIS05bw9EQ8
Nk7hjMYHHmy5EgkLhr82SdGm4xJcQwB87d44',
    'https://play-lh.googleusercontent.com/RHW0l21p3QP3ZaU2uS7JU_s0-UNrjiv
C9VhiGBwB1hB0Q4ALY8oWH_6Hd8BTizCEXYE',
    'https://play-lh.googleusercontent.com/41_5_QYtBDE_AVI2ET_VDQ_CTO_83
```

```
In [69]: len(result)
```

Out[69]: 19

```
In [70]: print("Title:", snapchat_info.get('title'))
print("Summary:", snapchat_info.get('summary'))
print("Installs:", snapchat_info.get('installs'))
print("Score:", snapchat_info.get('score'))
print("Ratings:", snapchat_info.get('ratings'))
print("Reviews:", snapchat_info.get('reviews'))
print("Genre:", snapchat_info.get('genre'))
```

Title: Snapchat  
Summary: Share the moment!  
Installs: 1,000,000,000+  
Score: 4.055323  
Ratings: 34074549  
Reviews: 1753512  
Genre: Communication


```
In [71]: data = [{
    "Id": snapchat_info.get("appId"),
    "title": snapchat_info.get("title"),
    "summary": snapchat_info.get("summary"),
    "realInstalls": snapchat_info.get("installs"),
    "Average_rating": snapchat_info.get("score"),
    "Ratings_received": snapchat_info.get("ratings"),
    "Reviews_received": snapchat_info.get("reviews"),
    "price": snapchat_info.get("price"),
    "developer_name": snapchat_info.get("developer"),
    "genre": snapchat_info.get("genre")
}]
```

```
In [72]: import pandas as pd

df = pd.DataFrame(data)
df
```

```
Out[72]:
```

	Id	title	summary	realInstalls	Average_rating	Ratings_received	R
0	com.snapchat.android	Snapchat	Share the moment!	1,000,000,000+	4.055323	34074549	



## Functions for the above steps

```
In [73]: import google_play_scraper
import pandas as pd

def retrieve_snapchat_info():
    snapchat_package_name = 'com.snapchat.android'
    snapchat_info = google_play_scraper.app(snapchat_package_name)

    data = [{
        "Id": snapchat_info.get("appId"),
        "title": snapchat_info.get("title"),
        "summary": snapchat_info.get("summary"),
        "number_of_installs": snapchat_info.get("installs"),
        "Average_rating": snapchat_info.get("score"),
        "Ratings_received": snapchat_info.get("ratings"),
        "Reviews_received": snapchat_info.get("reviews"),
        "Ratings_histogram": snapchat_info.get("histogram"),
        "price": snapchat_info.get("price"),
        "developer_name": snapchat_info.get("developer"),
        "genre": snapchat_info.get("genre")
    }]

    df = pd.DataFrame(data)
    return df

# Call the function
snapchat_df = retrieve_snapchat_info()
print(snapchat_df)
```

	Id	title	summary	number_of_installs	\
0	com.snapchat.android	Snapchat	Share the moment!	1,000,000,000+	
	Average_rating	Ratings_received	Reviews_received	\	
0	4.055319	34074467	1753511		
		Ratings_histogram	price	developer_name	\
0	[5129201, 1316360, 2131377, 3460800, 22036706]		0	Snap Inc	
		genre			
0		Communication			

## Save the data into Csv

```
In [74]: snapchat_df.to_csv("snapchat_info.csv", index=False)
```

```
In [75]: import pandas as pd

# Read the CSV file into a DataFrame
df = pd.read_csv("snapchat_info.csv")

# Filter the DataFrame for Snapchat
snapchat_df = df[df['title'] == 'Snapchat']

# Display the shape of the filtered DataFrame
print(snapchat_df.shape)
```

```
(1, 11)
```

## Now Lets Scrap the data

```
In [76]: snapchat_reviews, continuation_token = reviews(snapchat_package_name, sort=SortBy.NEWEST)
```

```
In [77]: snapchat_reviews
```

```
Out[77]: [{'reviewId': 'e15c144a-b89f-4b84-a0aa-144680c01dae',
  'userName': 'sharif ALASSil',
  'userImage': 'https://play-lh.googleusercontent.com/a/ACg8ocIPoMxh9AKzBoQnQuFLbJzQhPeuZrjsjZMBAapJCyCa=mo',
  'content': 'Byoutiful',
  'score': 5,
  'thumbsUpCount': 3,
  'reviewCreatedVersion': None,
  'at': datetime.datetime(2024, 2, 23, 20, 36, 4),
  'replyContent': None,
  'repliedAt': None,
  'appVersion': None},
 {'reviewId': '8f6d725d-491c-4fba-9b08-8d360df1913f',
  'userName': 'Aziz Baloch',
  'userImage': 'https://play-lh.googleusercontent.com/a/ACg8ocIKpOrAqdsphS-PqSsx9T1DxvF-zKyQVDsJ9-i3lX_z=mo',
  'content': 'Nice',
  'score': 5,
  'thumbsUpCount': 0,
  'reviewCreatedVersion': None}
```

```
In [78]: for review in snapchat_reviews:
  print(review.keys())
  break
```

```
dict_keys(['reviewId', 'userName', 'userImage', 'content', 'score', 'thumbsUpCount', 'reviewCreatedVersion', 'at', 'replyContent', 'repliedAt', 'appVersion'])
```

```
In [79]: def scrap_snapchat_reviews(output_csv_file):
# Specify the package name for Snapchat
snapchat_package_name = 'com.snapchat.android'

# Fetch the reviews for Snapchat
snapchat_reviews, _ = reviews(
    snapchat_package_name,
    sort=Sort.NEWEST
)

# Create a DataFrame for the reviews
reviews_df = pd.DataFrame(snapchat_reviews)

# Add 'Id' column with Snapchat's package name
reviews_df['Id'] = snapchat_package_name

# Save the reviews DataFrame to a CSV file
reviews_df.to_csv(output_csv_file, index=False, encoding='utf-8')

print(f"Snapchat reviews retrieval completed and saved to {output_csv_file}")

# Call the function with the desired output CSV file
scrap_snapchat_reviews("snapchat_reviews.csv")
```

Snapchat reviews retrieval completed and saved to snapchat\_reviews.csv.

```
In [80]: snapchat_reviews_df = pd.read_csv("snapchat_reviews.csv")

print(snapchat_reviews_df.head(2))
```

	reviewId	userName \
0	e15c144a-b89f-4b84-a0aa-144680c01dae	sharif ALASSil
1	8f6d725d-491c-4fba-9b08-8d360df1913f	Aziz Baloch

	userImage	content	score \
0	<a href="https://play-lh.googleusercontent.com/a/ACg8oc...">https://play-lh.googleusercontent.com/a/ACg8oc...</a>	( <a href="https://play-lh.googleusercontent.com/a/ACg8oc...">https://play-lh.googleusercontent.com/a/ACg8oc...</a> ) Byoutiful	5
1	<a href="https://play-lh.googleusercontent.com/a/ACg8oc...">https://play-lh.googleusercontent.com/a/ACg8oc...</a>	( <a href="https://play-lh.googleusercontent.com/a/ACg8oc...">https://play-lh.googleusercontent.com/a/ACg8oc...</a> ) Nice	5

	thumbsUpCount	reviewCreatedVersion	at	replyContent \
0	3	NaN	2024-02-23 20:36:04	NaN
1	0	NaN	2024-02-23 20:00:06	NaN

	repliedAt	appVersion	Id
0	NaN	NaN	com.snapchat.android
1	NaN	NaN	com.snapchat.android

## Now Lets Visualize it

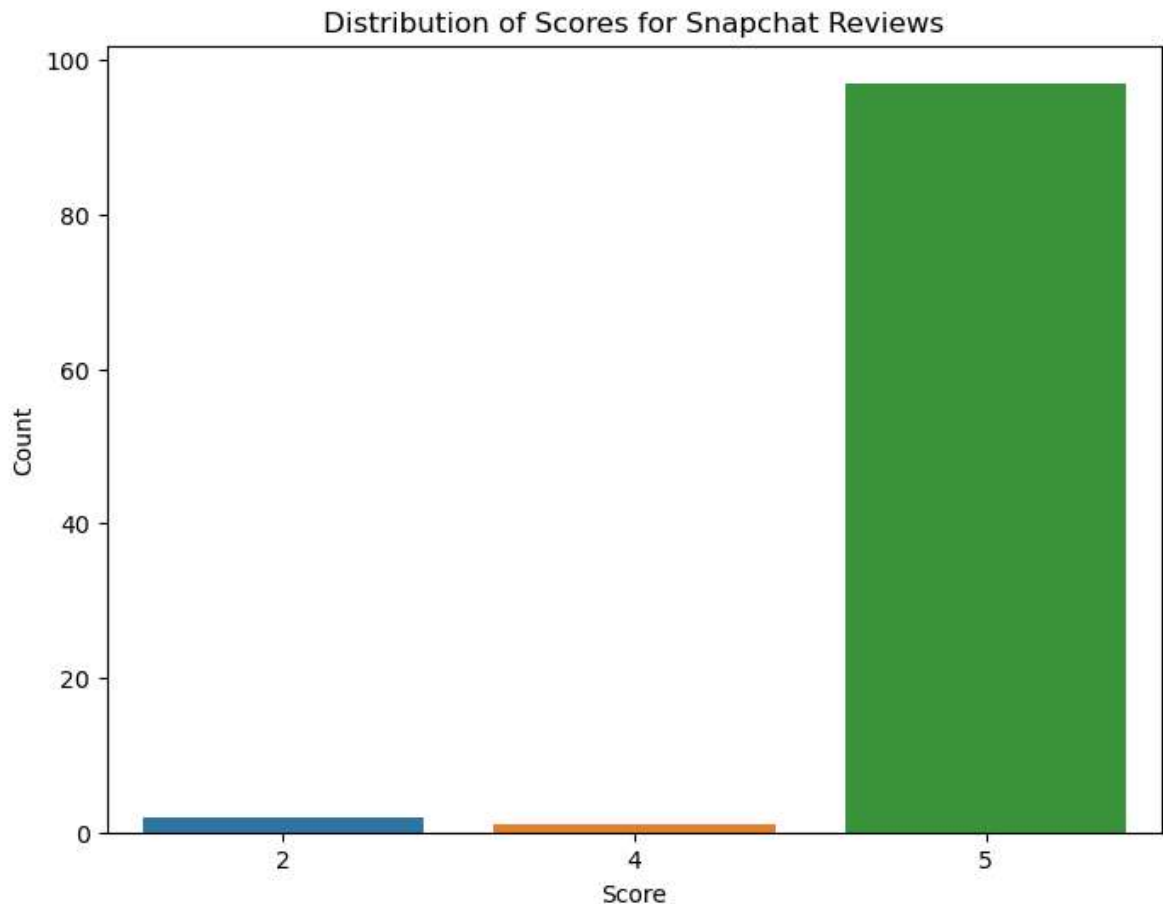
```
In [81]: import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
```

```
In [82]: # Print the columns in your DataFrame
print(df_snapchat.columns)
```

```
Index(['reviewId', 'userName', 'userImage', 'content', 'score',
      'thumbsUpCount', 'reviewCreatedVersion', 'at', 'replyContent',
      'repliedAt', 'appVersion', 'Id'],
      dtype='object')
```

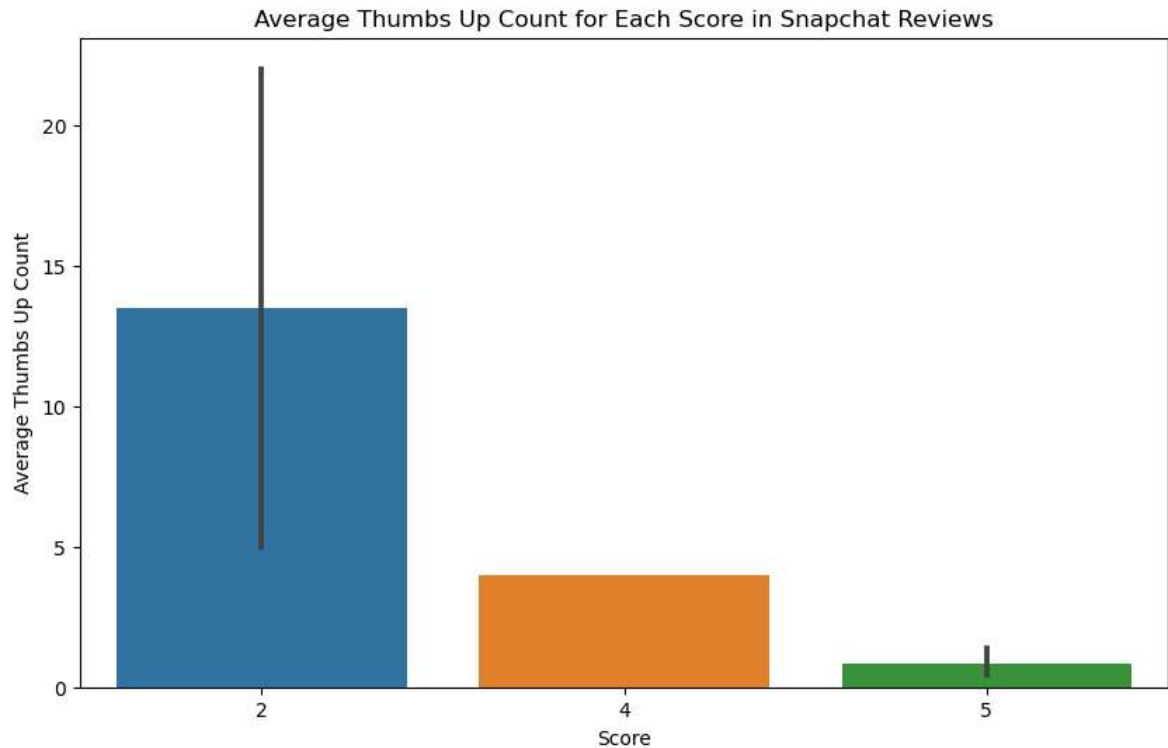
## Countplot for the distribution of scores

```
In [83]: plt.figure(figsize=(8, 6))
sns.countplot(x='score', data=df_snapchat)
plt.title('Distribution of Scores for Snapchat Reviews')
plt.xlabel('Score')
plt.ylabel('Count')
plt.show()
```



## Barplot for average thumbs up count for each score

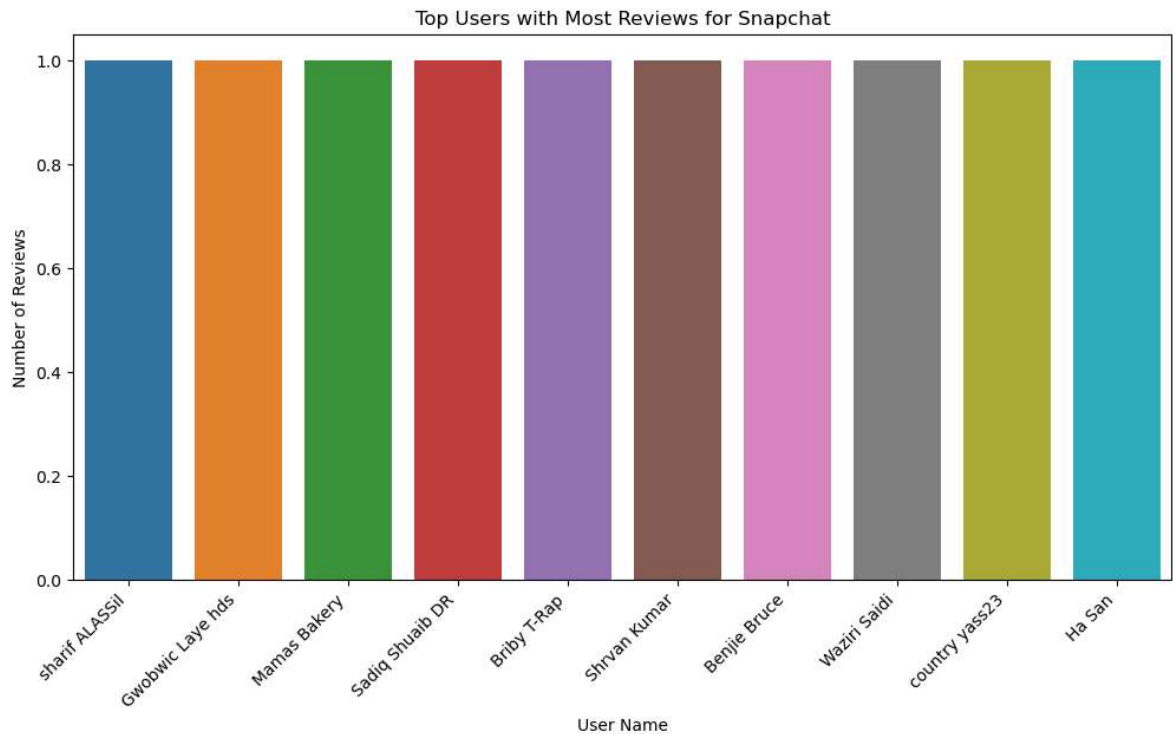
```
In [84]: plt.figure(figsize=(10, 6))
sns.barplot(x='score', y='thumbsUpCount', data=df_snapchat)
plt.title('Average Thumbs Up Count for Each Score in Snapchat Reviews')
plt.xlabel('Score')
plt.ylabel('Average Thumbs Up Count')
plt.show()
```



## Countplot for the top users with the most reviews



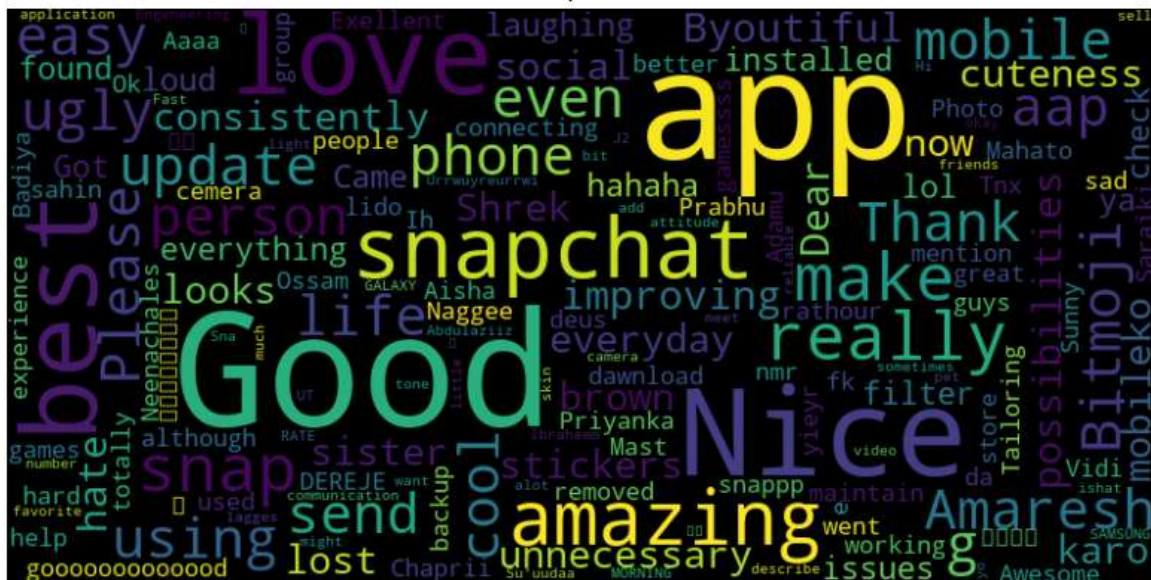
```
In [85]: top_users = df_snapchat['userName'].value_counts().nlargest(10)
plt.figure(figsize=(12, 6))
sns.barplot(x=top_users.index, y=top_users.values)
plt.title('Top Users with Most Reviews for Snapchat')
plt.xlabel('User Name')
plt.ylabel('Number of Reviews')
plt.xticks(rotation=45, ha='right')
plt.show()
```



## #Generate Word Cloud for review content

```
Requirement already satisfied: wordcloud in c:\users\pmyls\anaconda3\lib\site-packages (1.9.3)
Requirement already satisfied: numpy>=1.6.1 in c:\users\pmyls\anaconda3\lib\site-packages (from wordcloud) (1.24.3)
Requirement already satisfied: pillow in c:\users\pmyls\anaconda3\lib\site-packages (from wordcloud) (9.4.0)
Requirement already satisfied: matplotlib in c:\users\pmyls\anaconda3\lib\site-packages (from wordcloud) (3.7.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (1.0.5)
Requirement already satisfied: cycler>=0.10 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (4.25.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (23.1)
Requirement already satisfied: pyparsing<3.1, >=2.3.1 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\pmyls\anaconda3\lib\site-packages (from matplotlib->wordcloud) (2.8.2)
Requirement already satisfied: six>=1.5 in c:\users\pmyls\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib->wordcloud) (1.16.0)
```

### Word Cloud for Snapchat Review Content



# Ive Saved the data I Scrapped

```
In [88]: # Specify the path to your desktop
desktop_path = "/path/to/your/desktop" # Replace with the actual path to your

# Save the DataFrame to a CSV file on your desktop
df_snapchat.to_csv(f"C://Users//PMYLS//Desktop//snapchat_data.csv", index=False)

print("Data saved to desktop successfully.")
```

Data saved to desktop successfully.

In [ ]: