-Trump as usa president in 2024

fetching comments from YouTube videos related to Trump 2024 using youtube api, analyzing the sentiment of those comments, and presenting the sentiment distribution along with the most occurring positive and negative sentences

Why youtube comments??

- Reliable Data Source: YouTube comments provide authentic user opinions, offering valuable insights into public perception.

```
Enter a topic to search for:  trump in 2024
All comments saved to all_comments.csv
```

read cvs andd create list

[15]:
```
import pandas as pd

df=pd.read_csv('all_comments.csv')

df.describe()
```

[15]:

	Comments
count	7168
unique	7046
top	Trump 2024
freq	45

Hear we got 7168 comments on topic trump 2024
Stored as csv

Delimiter: ,

	Comments
1	Make America Stupid Again
2	sures to REMOVE him from ballots are POLITICAL PROSECUTIONS and violated peoples right to VOTE! So agree with Trump although never voted for him before. This time I will!!!
3	Democrats and liberals are running scared because they know Trump will become president 🤣
4	CLOSE The Borders
5	How could trump deliver a live play by play on truth social when truth social was down for an hour before and an hour into the State of the Union address?
6	Here's what Trump needs to do to really support with MAGA- start talking about flat earth, draconian reptilians, the fake moon landing, and adenochrome.
7	Trash Trump
8	There should be another strong third political party - Libertarian Party.
9	Trump is such an idiot..... claiming Biden is running from prosecution, lol, that's exactly what Trump is doing!
10	Please Biden needs to go
11	The communist news network sucks balls
12	Civil cases are better than criminal cases - Trump opened a portal to Hell.
13	MAGA 2024!
14	Get it done Trump!
15	Nepotism is only an issue when you're Republican
16	Joe Biden is the oldest, dumbest, racist, absolutely the worst president in the history of America!!!Trump 2024!!!
17	He can't even read! LOL
18	😂😂😂😂😂Trump your becoming funny🥳 🥳 🥳everyday that goes by🥳 🥳
19	SO THE OLIGARCHS CEMENT CONTROL OF THE "CONSERVATIVE" PARTY. JUST WHAT IN THE HELL ARE THEY "CONSERVING"??????????????????????????????
20	Why did biden say the exact same thing word for word as he did in 2022 and 2023? Check it out yourself and then tell me it's not all scripted
21	as as popular as Reagan in 2020 but then. forme vice president Biden was as infamous as Cheney. How on Earth did Biden supposedly "win" the 2020 election??? Was it the cia???
22	Hypothetically lets say Biden is reelected. Hes not finishing 4 more years, his health is declining and its obvious to everyone
23	After watching Joe Biden speech he looks fit and should get a second term
24	he need to be stopped , he is the next putin. like any dictatorship ,he place his family in charge. US is on way to civil war if not stopped
25	Trump 2024. Can't wait for the country to be saved.
26	CNN stop equating policy discussion by Biden with 45's demagougery.
27	They need a puppet on a string...Biden...very sad

[18]:
```
import emoji
positive_emojis = ['💪','🚩','😊', '😄', '😍', '👍', '👏', '🌟', '💯', '❤️', '🎉', '✌️', '🏆', '✨', '🙌', '🌈', '😁', '😀', '😇', '🤗', '🥰',
negative_emojis = ['😞', '😔', '😩', '😢', '😳', '😭', '👎', '💔', '👺', '😨']
```

[19]:
```
extranegetive_orcuss=['bad']
```

[20]:
```
from nltk.corpus import opinion_lexicon

# Load positive and negative words
positive_words = set(opinion_lexicon.positive())

negative_words = set(opinion_lexicon.negative())
negative_words |= set(extranegetive_orcuss)
```

```
from nltk.corpus import opinion_lexicon
```

Positive and negative words from nltk and emojis as people use emojis a lot while expressing in youtube comments

```
totalval = []

for sentence in userinput:
    try:
        sentence = sentence.lower()
    except AttributeError as e:
        print(f"An error occurred: {e}")
    try:
        wordval = 0  # Reset wordval for each sentence
        words = sentence.split()

        for word in words:
            if word in positive_words:
                wordval += 1
            elif word in negative_words:
                wordval -= 1
            else:
                wordval += 0

        # Handling emojis separately
        for char in sentence:
            if char in positive_emojis:
                wordval += 1
            elif char in negative_emojis:
                wordval -= 1

        if wordval > 0:
            totalval.append(1)
        elif wordval < 0:
            totalval.append(-1)
        else:
            totalval.append(0)
    except AttributeError as e:
        print(f"Error processing sentence: {sentence}. Error: {str(e)}")
```

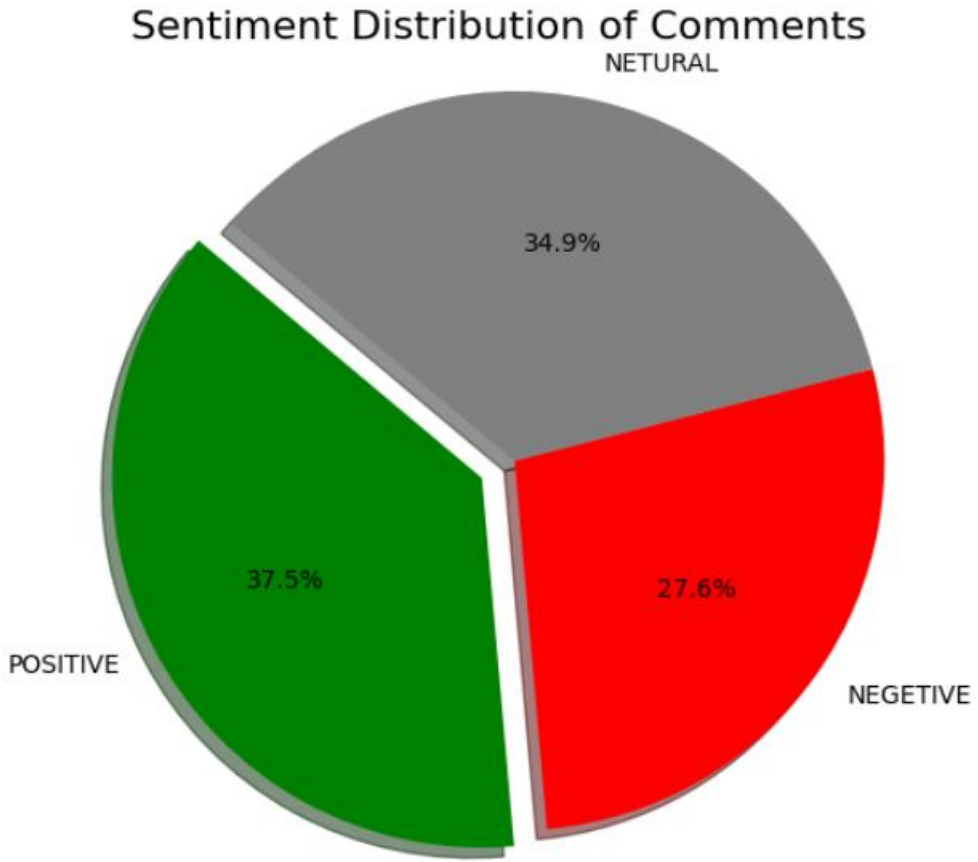
classifying sentence as negative and positive

```
total_comments=len(totalval)

positive_per=(positive/total_comments)*100
negetive_per=(negetive/total_comments)*100
netural_per=(netural/total_comments)*100
```

graph

```
import matplotlib.pyplot as plt

import matplotlib.pyplot as plt

#  list of percentages
percentages = [positive_per,negetive_per,netural_per]

labels = ['POSITIVE', 'NEGETIVE', 'NETURAL']

colors = ['green', 'red', 'grey']

explode = (0.1, 0, 0)  # Explode the 1st slice (Positive)

plt.figure(figsize=(8, 6))
plt.pie(percentages, explode=explode, labels=labels, colors=colors, autopct='%1.1f%%', shadow=True, startangle=140)
plt.title('Sentiment Distribution of Comments', fontsize=16)
plt.axis('equal')  # Equal aspect ratio ensures that pie is drawn as a circle.

# Display the plot
plt.show()
print("total comments=",total_comments)
print("negetive comments=",negetive)
print("positive  comments=",positive)
print("netural comments=",netural)
```

Calculating percentage and plotting a graph



Conclusion: Most people express a positive sentiment towards seeing Trump as the USA president in 2024, and some also assert that CNN is fake news

```
total comments= 7168
negetive comments= 1980
positive  comments= 2688
netural comments= 2500
```

most occuring positive sentence: trump 2024 bad= cnn is fake news

Getting summary by giving selected positive and negative sentence to google Gemini ai using google api

"positive_comments": "4756", "positive_per": "27.093539933918194", "summry": "There is a range of sentiments expressed in these comments regarding the possibility of Trump running for president again in 2024. Some people believe that Trump is the best candidate to lead the country, while others are concerned about his age and his policies. There are also some people who believe that neither Trump nor Biden is a good candidate, and that the country needs a new leader.", "total_comments": "17554"}