import tweepy

from textblob import TextBlob

import matplotlib.pyplot as plt

import seaborn as sns

# Twitter API credentials

consumer\_key = 'your\_consumer\_key'

consumer\_secret = 'your\_consumer\_secret'

access\_token = 'your\_access\_token'

access\_token\_secret = 'your\_access\_token\_secret'

# Authenticate with the Twitter API

auth = tweepy.OAuthHandler(consumer\_key, consumer\_secret)

auth.set\_access\_token(access\_token, access\_token\_secret)

api = tweepy.API(auth)

# Define the search query

query = 'titanic movie'

# Collect tweets

tweets = api.search(q=query, lang='en', count=100)

# Analyze sentiment

sentiments = []

for tweet in tweets:

analysis = TextBlob(tweet.text)

sentiments.append(analysis.sentiment.polarity)

# Visualize sentiment

plt.hist(sentiments, bins=10)

plt.xlabel('Sentiment Polarity')

plt.ylabel('Count')

plt.title('Sentiment Analysis of Tweets on Titanic Movie')

plt.show()

# Analyze word frequency

freq\_dist = nltk.FreqDist(tweet.text.lower().split() for tweet in tweets)

top\_words = pd.DataFrame(freq\_dist.most\_common(10), columns=['Word', 'Frequency'])

# Visualize word frequency

sns.barplot(x='Word', y='Frequency', data=top\_words)

plt.xlabel('Word')

plt.ylabel('Frequency')

plt.title('Top 10 Words in Tweets on Titanic Movie')

plt.show()