**Coronavirus Tweet Sentiment Analysis**

from transformers import pipeline

Import tweepy

# 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

auth = tweepy.OAuth1UserHandler(consumer\_key, consumer\_secret, access\_token, access\_token\_secret)

# Create API object

api = tweepy.API(auth)

# Search query

query = 'coronavirus'

# Number of tweets to retrieve

count = 100

# Get tweets

tweets = api.search(q=query, count=count)

# Initialize sentiment analysis pipeline

nlp = pipeline("sentiment-analysis")

# Perform sentiment analysis on tweets

for tweet in tweets:

# Analyze sentiment

result = nlp(tweet.text)

# Print tweet and sentiment analysis result

print(f"Tweet: {tweet.text}")

print(f"Sentiment: {result[0]['label']} ({result[0]['score']:.2f})")

print()

*# function to collect hashtags*

**def** hashtag\_extract(x):

hashtags **=** []

**for** i **in** x:

ht **=** re**.**findall(r'#(\w+)', i)

hashtags**.**append(ht)

**return** hashtags

**In this following example**,

1. we have a list of sample tweets related to coronavirus.
2. The program performs sentiment analysis on each tweet using the TextBlob library and displays the tweet along with its sentiment analysis result, which includes the sentiment label ('Positive', 'Negative', or 'Neutral').

**# Sample tweets related to coronavirus**

tweets = [

"I'm so worried about the spread of coronavirus. It's getting out of control!",

"Feeling hopeful that the vaccine rollout will help bring an end to the pandemic.",

"Coronavirus lockdown has been tough, but we're all in this together!",

"The government's response to coronavirus has been disappointing. They need to do better.",

"Just tested positive for COVID-19. Feeling scared and isolated."

]

# Perform sentiment analysis on tweets

for tweet in tweets:

# Analyze sentiment

analysis = TextBlob(tweet)

sentiment = analysis.sentiment

# Determine sentiment label

if sentiment.polarity > 0:

sentiment\_label = 'Positive'

elif sentiment.polarity < 0:

sentiment\_label = 'Negative'

else:

sentiment\_label = 'Neutral'

# Print tweet and sentiment analysis result

print("Tweet:", tweet)

print("Sentiment:", sentiment\_label)

print()