

TO FIND OUT WHICH COUNTRY INVOLVED IN TRENDING UKRAINE VS RUSSIA HASHTAG

Dr. S.Krishnaveni

Assistant professor, Department of B.Com (Business analytics) PSGR
Krishnammal College for Women, Coimbatore, India.

krishnavenis@psgrkcw.ac.in

D. Jeya Brindha

UG Scholar, Department of B.Com (Business analytics)
PSGR Krishnammal College for Women, Coimbatore, India.

brindhahamo@gmail.com

ABSTRACT

Hashtags boom the reachability of a tweet to manifolds and consequently, has the capacity to connect with what's happening on Twitter. Hashtags help institution tweets and conversations round a comparable topic. So when someone clicks on or searches a particular hashtag, it will be capable to discover all the profiles and public posts that use that hashtag. Hashtags are in a reachable manner of grouping and categorising tweets, and that they help humans follow subjects wherein they're involved. Anyone trying to find a specific subject matter can discover relevant tweets immediately in preference to having to scroll via their Twitter feed. In this paper, the impact of Russia and Ukraine conflict on social media especially on Twitter has been discussed with the usage of hashtags. The countries who are all involved in trending hashtags under this conflict have to be listed.

Keywords- Twitter, Tweets, Hashtag, Python, Russia, Ukraine.

I. INTRODUCTION

Social networks and microblogging web sites have grow to be the extraordinary source of unstructured facts. This statistics is significant in amount and also in terms of the useful records they could offer if we system them efficiently. This is because of the character of microblogs on which human beings submit actual-time messages approximately their critiques on a number of topics, discuss modern issues, complain, and explicit their feelings. One such social community referred to as Twitter to investigate the top tweets associated with Ukraine and Russia. Using the twitter dataset have been downloaded from the twitter the usage of the twitter API developer account in twitter. Then the coding was coded in Colab python platform and it is run to get the result. The visualisation is done for the trending top countries who are all involved in Russia Ukraine conflict.

II. OBJECTIVE

Analysing the countries which are all involved in the Russia-Ukraine conflict and trending hashtags from the top most participated countries. This conflict made every country to interact more on every social media platform mainly on Twitter. Through the trending hashtags on country wise, the ideology of people, their support towards which country have been known.

III. RELATED WORKS

A collection of over 63 million tweets, from February 22, 2022 through March 8, 2022 that are publishing for the wider research community to use. The topics and hashtags to identify and curate a list of keywords that are pertinent to the developing between war between Ukraine and Russia. This resulted in framing the list to query Twitter's streaming API for any tweets that contained the keywords of interest in the tweet's text.

Twitter automatically attempts to tag each tweet with its language ISO, and includes the found ISO in a tweet's metadata. The result was the investigated language distribution of the tweets, find that English is the pre-dominant language that is identified. This aligns with expectations, as most of the keywords that were initially tracking were all in English.[1]

According to the UN High Commissioner for Refugees, as of March 3 2022, just seven days into the war, more than a million Ukrainians were believed to have fled the country. Data on the stock of migrants are scarce, but available data indicate that Russia hosts between 2 and 3 million Ukrainian Migrants, equivalent to around 5-7 percent of Ukraine's population.[2]

Most Russians on Crimea apparently did not want any longer to be a national minority in Ukraine, forced to learn and use another official language, Moreover, they were promised by the separatists, and indeed expected, a tangible improvement of their standard of living, including, at least, twice as high Russian wages and retirement benefits, etc.[3]

The Russo-Ukrainian conflict escalated in February 2022 after Russia recognised two Ukrainian breakaway regions - the Donetsk People's Republic and the Luhansk People's Republic [4]. Following this, the Russian Federation's senate granted the use of military force in those regions on 22nd February 2022. On 24th February, the Russian government began an invasion of Ukraine, what it referred to as a special military operation [5].

At the time of writing, the conflict is still ongoing. People worldwide have been using social media to share their opinions regarding this conflict. Online Social Networks (OSNs) have been a prominent source of data in studying prior large-scale information discourse during crises and social movements [6], [7], particularly in terms of 'information warfare' where such platforms can become the source of propaganda and misinformation [8].

IV. METHODOLOGY FLOWCHART

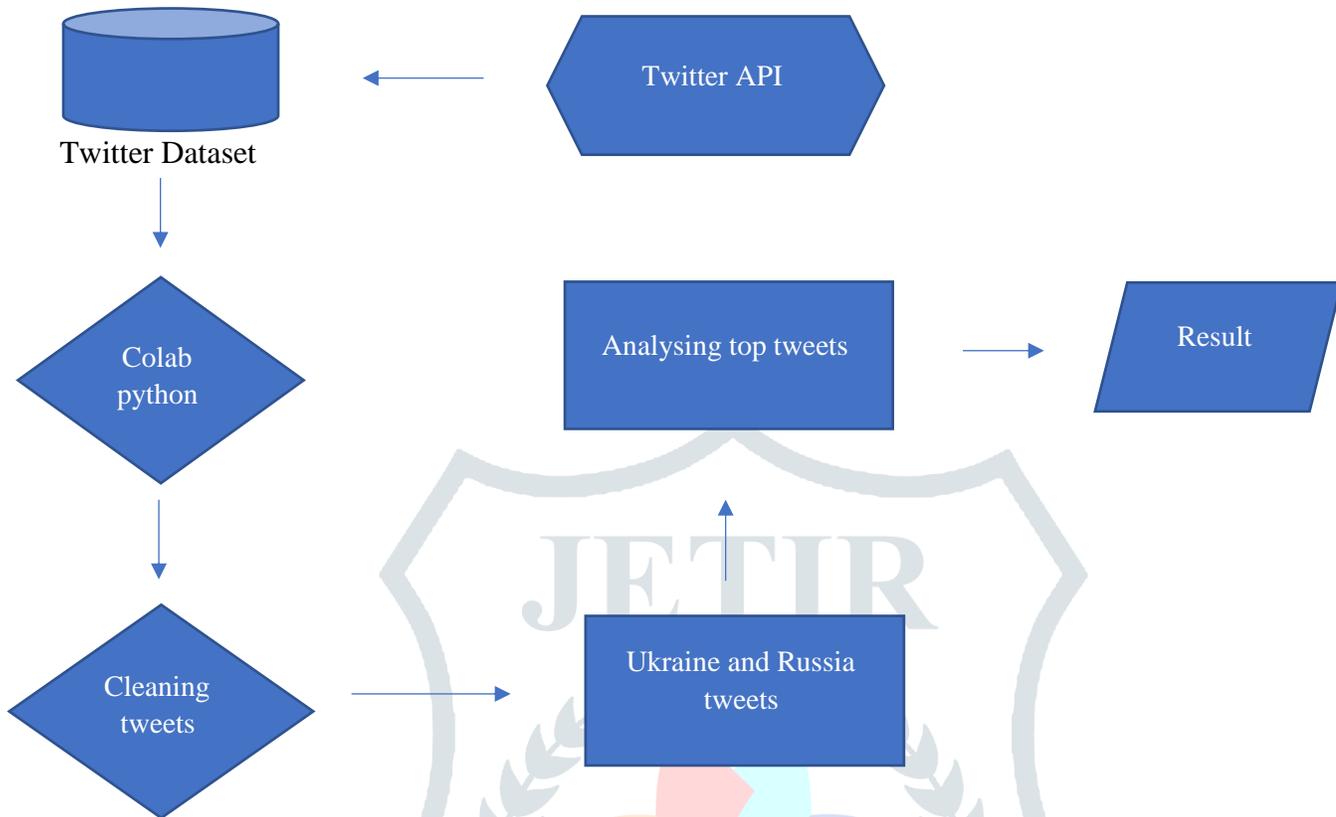


FIG 4.1 Flowchart

A. TWITTER API

To be capable of get entry to Twitter information programmatically we want to create and check in an app on twitter builders internet site for authentication and thereafter we can get entry to records with the aid of using Twitter API. To register the twitter app, we want to create a new app <https://apps.Twitter.Com/>. On registering the app we are able to get hold of consumer_key and consumer_secret_key. Next, From the configuration web page of the app, we will get access_token and access_token_secret, in an effort to be used to get admission to twitter on behalf of our application. We should keep those authentication tokens personal as they can be misused. Best practice is to create a separate config record and maintain those tokens.

B. ACCESSING DATASET

Twitter presents REST API's to hook up with their service. We will use one python library to get entry to the twitter REST API's called Tweepy. It provides wrapper methods to without difficulty access twitter REST API. To install Tweepy we will use beneath command.

Pip set up tweepy

In order to authorize our app to get right of entry to Twitter on our behalf, we need to apply the OAuth interface. Below code will use tweepy OAuthHandler technique and our configuration tokens to provide get entry to twitter.

C. PREPARING DATASET

Before we begin to analyze the twitter records, it is important to recognize the structure of the tweet in addition to pre-system the records to cast off non-beneficial terms known as prevent words.. Pre-processing

is inside the simple term approach to take within the records and put together the information for finest output thinking about our requirement.

D. CLEANING TWEETS

Tweets are quick messages, restricted to one hundred forty characters in duration. Due to the character of this microblogging carrier (brief and brief messages), humans use acronyms, make spelling mistakes, use emoticons and other characters that specific unique meanings. Following is a quick terminology associated with tweets. Remove punctuations, Tokenization – Converting a sentence into list of phrases. Remove forestall words. Lemmatization/stemming –Transforming any form of a word to its root word.

E. PROCESS

Trending tweets are gathered together and some number of countries which are all engaged in the process of trending tweets regarding Ukraine and Russia conflict has been arranged in an order to find out which country involved in trending hashtags under this conflict has been visualized using diagrams for visualization. Through this, the result is displayed as the countries of which are all involved in most trending hashtags and tweets on Twitter and the least involved country was also founded here.

V. RESULT

```
country_count = tweets.groupby(['alpha-3', 'Country'])[
    'username'].size().to_frame('country_count').reset_index()
fig = px.scatter_geo(country_count, locations="alpha-3", color="alpha-3",
                    hover_name="Country", size="country_count",
                    projection="natural earth", title="Country wise Tweets")
fig.show()
```

FIG 5.1 Code for top countries involved in this conflict

In FIG 5.1, the countries engaged in trending tweets regarding Russia and Ukraine conflict has been collected using attributes like locations, country_count, hover_name, size, projection and title of the visualization.

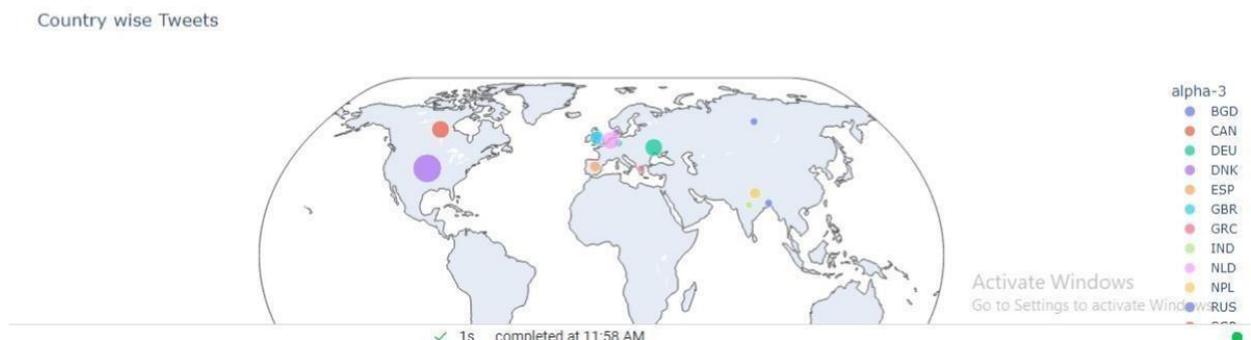


FIG 5.2 Country wise tweets

In FIG 5.2, the visualization of the countries which are all involved in trending tweets regarding Ukraine and Russia conflict are displayed as map visualization.

```
[ ] fig = px.bar(country_count, x='Country', y='country_count', color='Country',
                title="Tweets count by Country", labels={'country_count': 'Count of Tweets'})
fig.update_layout(xaxis={'categoryorder': 'total descending'})
fig.show()
```

FIG 5.3 to find out tweets count

In FIG 5.3, the countries engaged in trending tweets regarding Russia and Ukraine conflict has been collected using attributes like country_count, labels, title, and categorize those on two axis such as X and Y. Then, it is visualized in descending order.

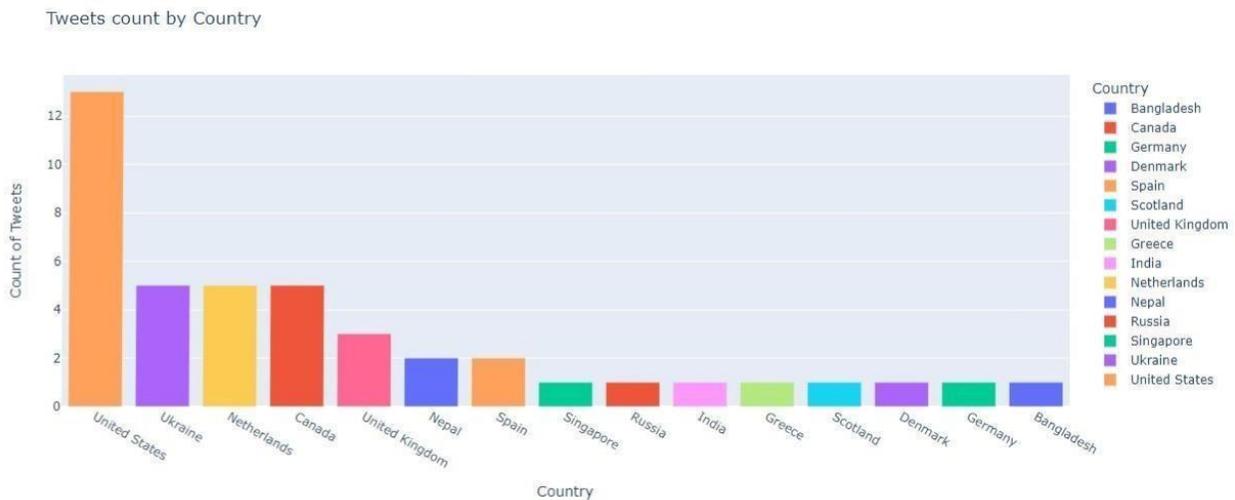


FIG 5.4 Tweets count by country

In FIG 5.4, the visualization of the countries of tweets counts from top to less involved countries as a result United States is the top most country and Bangladesh is the less interacted country are all displayed. This is visualized using bar diagram.

VI. CONCLUSION

In this paper by way of the use of colab for analyzing the information that have been extracted from python using Twitter API. Analysed the tweets associated with Ukraine Russia disaster with assist of data gathered from developer account and additionally found out the fans matter by groupby the author and the followers who're all following the Ukraine and Russian conflicts. With the assist of this result, we are able to understand the peoples opinion about the Ukraine and Russia war and there by the usage of the twitter dataset.

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