

Individual Progress Report

May 9th - 15th

Beginning of this week, I was playing around with the Sample Project codes that were provided on Learn, to see how the code outputted the data using GDELT Summary and GDELT Database 2.0. This will give me a rough idea on how I can pull useful data that I can use later while analyzing my Research Question. The first roadblock that I came across was playing around with the GDELT Summary sample code that uses the URL to pull data. At first I was trying to figure out what was wrong with the code as it was not printing out any article that was pulled from the URL, then one of the tutor managed to fix the code so it was printing it properly.

Around Mid/End of the week, I attempted to play around with the GDELT Database 2.0/1.0. I was using example codes from the gdeltPyR to understand how gdelt worked. I managed to figure out briefly how to get the data using .Search(Parameters) from the example codes on the website (Figure 1), but when I tried searching for Data that I could relate to my Research Question. I couldn't figure it out as my Research Question was a bit complex for me to use .Search, so I went back to using GDELT Summary, as it's an easier alternative to get Data.

```
import gdelt

gd = gdelt.gdelt(version=2)

results = gd.Search('2016 Nov 1',table='mentions',output='json')
print(len(results))

results = gd2.Search(['2016 11 01'],table='events',coverage=True)
print(len(results))

/usr/local/lib/python3.7/dist-packages/gdelt/base.py:623: FutureWarning: The warn_bad_lines argument has be

    results = _mp_worker(self.download_list, proxies=self.proxies)
3915757
```

Figure 1. Playing around with sample code for gdelt 2

I played around with GDELT Summary with my Research Question and tried to find some dataset (Figure 2.). A roadblock that I came around is that there's mostly Negative ArticleTones articles (Figure 3.) regarding my Research Question about the Ukraine War. I tried to search for some Fairly Positive ArticleTones Articles, I did not come across any, so in this case my Research Question would be an interesting and a weird take to find a dataset for, as 99% of the articles that I have found are Negative, so I have decided that I will be changing my Research Question to **“Analyzing top cryptocurrencies interest before covid and after covid”**, I feel this would be an interesting topic to do, as I am interested/invested in the cryptocurrency market. To answer my new Research Question I will still follow my proposal that I submitted, using cosine similarity to do the before and after, the only thing that is different would be my Research Question.

Search Details

The displays on this page summarize coverage returned by the following search:

Data Source: Global Online News Coverage

Human Summary: "Ukraine War" AND "Russian War Ukraine" AND "Ukraine" AND (SourceCountry:Germany OR SourceCountry:Iran OR SourceCountry:UnitedKingdom OR SourceCountry:UnitedStates) AND ArticleTone: FairlyPositive
[\[Modify Search\]](#)

Volume Timeline



Figure 2. Searching URL for Fairly Positive Articles, there's none.

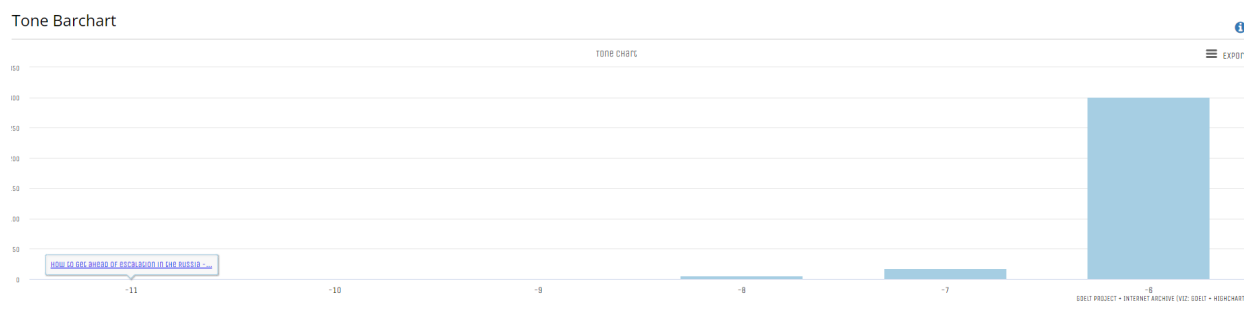


Figure 3. Same URL as Figure 2 but change Fairly Positive to Fairly Negative.

May 16th - 19th

This week I mostly played around with the GDELT Summary with my new Research Question about **“Analyzing top cryptocurrencies interest before covid and after covid”** and I found out that there is much more data about this topic and the data are much more do-able.

Search Details

The displays on this page summarize coverage returned by the following search:

Data Source: Global Online News Coverage

Human Summary: "Bitcoin" AND "Covid" AND (SourceCountry:Germany OR SourceCountry:Singapore OR SourceCountry:UnitedKingdom OR SourceCountry:UnitedStates) AND PublicationDate=>=2/1/2020 AND PublicationDate<=4/30/2020 23:59:59 UTC
[\[Modify Search\]](#)

Figure 4. Custom test URL for GDELT Summary



Figure 5. Tone Barchart and Top Articles from the Custom URL in Figure 4.

As seen in Figure 5 we can see that the data is much more spread out with Positive and Negative Tone Barchart compared to my old Research Question (“**Analyzing the response to the Ukraine and Russia War in the US compared to the top countries around the world**”). I haven’t done much regarding sorting/mapping/filtering/etc. around with the dataset, as I am still playing with the GDELT Summary with the Keywords to see which word works and which doesn’t work.

Plans onwards

My plan onwards will be trying to play around the dataset that I acquired from the GDELT Summary, making sure that the dataset can answer my Research Question. Finalizing which country I will use for analyzing cryptocurrency interest. My plan to answer my research question is to do a word count for different cryptocurrencies (BTC, ETH, ADA, XRP, etc.) on news sources before covid and after covid, then i will be attempting a cosine similarity to compare the two.

Papers/Documentations

gdeltPyR

<https://linwoodc3.github.io/gdeltPyR/>

Figuring out which Country support which using this website

<https://dmerharyana.org/countries-supporting-russia-ukraine/>

Covid impact on Cryptocurrency

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0259869>

Covid impact on Cryptocurrency (2)

<https://www.sciencedirect.com/science/article/pii/S0378437122001765>

Covid impact on Cryptocurrency (3)

<https://economictimes.indiatimes.com/markets/cryptocurrency/cryptocurrency-has-risen-despite-the-pandemic-is-expected-to-continue/articleshow/82800680.cms?from=mdr>

Coin market cap to get the top cryptos

<https://coinmarketcap.com/>