Emily Usinski’s Contributions

At the beginning of the project, I chose to create the user-interface (UI). I decided to use Django to build a website to host a search engine that sent a url request to solr and returned the results to the webpage. In addition, various analytics would be performed on the results and displayed on a second page. However, due to time constraints and other course work, I was unable to complete all of these goals.

My original idea was to fetch the user query and translate it into the three required languages specified in project 1: english, italian, and hindi. This could be done by using the python GoogleTrans class. The top 150 tweets returned from each query would be displayed on the webpage. This way, the search engine would have an elementary multilingual aspect to it. In addition, news articles would be provided that discussed similar topics as the query along with any people of interest (POIs) from the country of the tweets. Lastly, for the faceted search, some of the facets could be POI, language, country, topic, and tweet hashtags.

In reality, I was able to create a search engine, but failed to print the results to the webpage. This search engine received the users query and created a url to query Solr. The Solr data was returned and formatted into a pandas dataframe. Also, I was unable to create any graphs for the analytics page. One of the group members, Hitesh, created a new website using Dash and was able to replicate the search engine and print the results along with news articles to the screen. I was able to write a script to retrieve news articles relevant to the users. Also, the news articles contained POI actions towards the users' query.

Lastly, I wrote a script to convert a CSV file to a python Pandas dataframe. The CSV contained the number of cases and number of deaths each day from January 1st, 2020 to December 9th, 2020 for India, Italy, and the United States of America.

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