Steps to follow before running the code-

Paths to be set in the code before running the main function –

-->Set your Google geocoding API key

In class GetLongAndLat.java, set your google geocoding API key at 2 places (Search for “Your-API-KEY”).

-->Set the path of Chrome driver for Selenium in two files-

TOIExtraction.java

ExtractDataFromAcled.java

Search for “Set-Your-Chrome-Driver-Path-Here” in both the files

-->Set CSV File paths

ParameterEvaluation.java

OutputDataToCSV.java

ExtractDataFromAcled.java

Search for “Set-CSV-FilePath-Here” in the above 3 files.

-->Install the following python libraries before you run the code-

Numpy

Sklearn

Pickle

Pandas

Nltk

Networkx

Practnlptools

Run the application:

--->Import Aparecium folder project as a maven project in any Java IDE.

--->Set the date for which you want to extract events for in TOIdataExtraction.java file.

Search for comment – “//Set the date here”

---->Run the MainFunction.java’s main function in order to run the whole application.

---->A CSV file with name “ApareciumArticles.csv” will be generated on the path you mentioned for CSV files in the code in step 3. This file contains only the article content and article’s published date of all the articles collected by the application in it.

---->Also, in the end, another CSV file called “Aparecium.csv” will be generated on the same path as step 3 which will contain the events and respective event parameters along with summarized text in it for every event. The headers for this file are as follows –

Article Content

Published Date

Actor

Event Date

Location

Longitude and Latitude

Election Violence

Summarized text