

Fr. C. Rodrigues Institute of Technology, Vashi, Navi-Mumbai Department of Computer Engineering Second Half of 2022

Big Data Analytics Mini Project Report

Title: - Google Trends Analysis

Group members: -

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Abstract: -

For most of us, Google Web Search and other major Google products are our go-to weapon whenever we need to find anything on the internet or in the real world. Whether it's getting the latest Covid pandemic news, the latest scores from your favorite sport, or learning how to make that delicious dish, Google is our #1 source of information right away. now. One way to use some of the information that Google has about us to our benefit is to use Google Trends. It facilitates discovering trends and analyzing the behavior of our customers and users in general. Google Trends is one of the best tools for knowledge discovery and shows in real time (or near) the relevance of a topic, at least in terms of web searches and interest. public interest. In this project, we will see how to extract data from Google Trends in R environment and how we can play with this data, creating interesting visualizations.

Technology/Tool used: -

Google Colab, R programming, gtrendsR, dplyr, patchwork



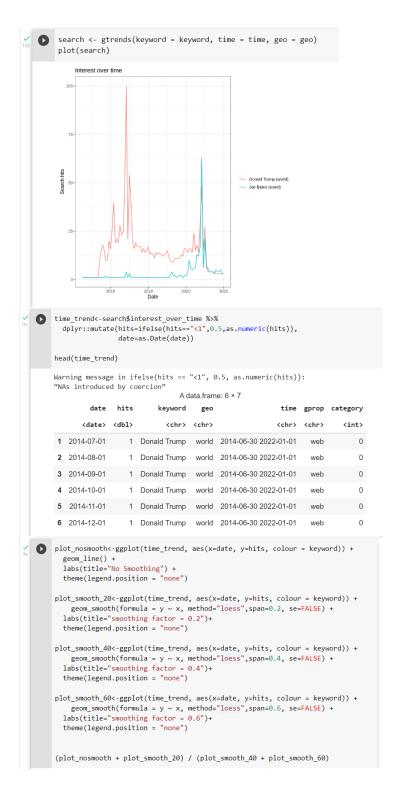
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Important Code Snippets: -

```
[1] system("apt-get -y update") system("apt-get install -y libudunits2-dev libgdal-dev libgeos-dev libproj-dev")
   install.packages("gtrendsR")
install.packages("dplyr")
install.packages("patchwork")
         install.packages("patchwork
install.packages("ggforce")
install.packages("ggrepel")
install.packages("spData")
install.packages("sf")
install.packages("tmap")
    Installing package into '/usr/local/lib/R/site-library' (as 'lib' is unspecified)
         also installing the dependencies 'Rcpp', 'BH', 'anytime'
         Installing package into '/usr/local/lib/R/site-library' (as 'lib' is unspecified)
         Installing package into \mbox{'/usr/local/lib/R/site-library'} (as 'lib' is unspecified)
     library(gtrendsR)
            library(dplyr)
           library(ggplot2)
library(patchwork)
library(ggforce)
           library(ggrepel)
library(spData)
           library(sf)
           Attaching package: 'dplyr'
           The following objects are masked from 'package:stats':
           The following objects are masked from 'package:base':
                 intersect, setdiff, setequal, union
           To access larger datasets in this package, install the spDataLarge
           package with: `install.packages('spDataLarge',
repos='https://nowosad.github.io/drat/', type='source')`
           Linking to GEOS 3.6.2, GDAL 2.2.3, PROJ 4.9.3; sf_use_s2() is TRUE
   [4] Sys.setenv(TZ = "UTC")
 [5] keyword <- c("Donald Trump", "Joe Biden")
                time <- "2014-06-30 2022-01-01"
                geo = ""
```

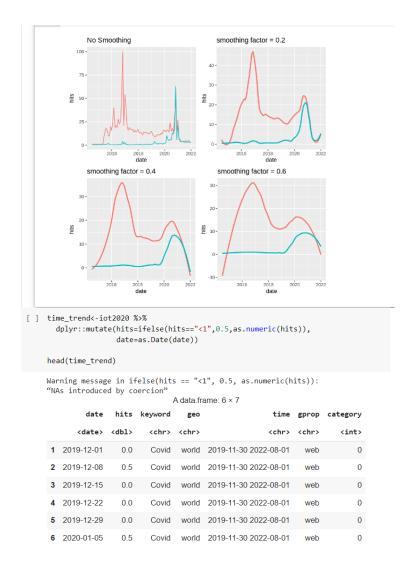


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Screens shots: -

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