



Interactive Data Visualization

Corona-virus Pandemic-Data Visualization

Assignment 5

Presenters:

- Shashank kanakapura Srivatsa
- Shreyas Kottur Shivananda
- o Guru Prasad Savandaiah
- Vivek Jaganath
- Seena Mathew



Overview

- 1 Introduction
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Introduction:

- In the month of January 2020, most of the European countries were affected by COVID-19.
- Due to lack of information, there was much confusion amongst European territory on prevention.
- German government took the lead and came up with many measures to counter COVID-19.
- In this project, we are comparing the response of Germany with its European counterparts.



Data Sets:

o Data-set 1:

Name: "Dataset1.csv" From this data-set we infer data to compare the various restriction imposed by the governments in Europe with German government.

o Data set 2:

Name: "owid-covid-data.csv"
This data-set provides information on the total affected cases and total deaths due to corona virus across Europe.



Data Sets:

o Data set 3:

Name: "time_series_covid19_recovered_global.csv" From this data-set information regarding the recovered COVID cases across Europe is retrieved.

o Data set 4:

Name:

"acaps_covid19_government_measures_dataset_0.xlsx" From this data-set we infer policy milestones information regarding the various restrictions imposed by European government.



Users and Tasks:

Users:

- COVID-19 affected patients across Europe.
- o European Travellers
- Government authorities.
- Individuals wanting to compare Germans actions vs its European counter-parts.
- European citizens looking forward for end of the pandemic.



Users and Tasks:

Tasks:

- View information regarding corona cases in European nations.
- o View information public life accessibility across Europe.
- Compare COVID-19 response of Germany with other EU nations.



Visualisation:

- plotly.express has been used to generate the choropleth map of Europe.
- Line graph representing the affected, death and recovered cases of Germany and the selected European country.
- o Bar graph between dates and chosen policy restriction.
- Data Table provides information about different measures taken by the government of the selected country.



Interaction:

- Navigation Zoom, Hoover cursor to display data etc.
- Filter Select subset of data based on certain factors like date.
- Encoding Switch from line graph to bar graph and vice-versa.
- Range Slider TO select the date range for which the data needs to be displayed.



Interaction:

Interaction Operand

- o Screen space will be used in accordance with Navigation.
- Data value space will be used in accordance with Filtering.

The End