Covid-19 DataViz Challenge :
Explain and Explore COVID-19 Epidemic

Submission Date: March 15, Sunday *(by 10pm)*

Important :
(i) For this challenge, use Tableau or D3.
(ii) **Use this link for submission.**
http://dataviz-fyp20.herokuapp.com/accounts/eventdetail/7a5fdf73-8083-49bf-89e2-d8407de81657/

Challenge Statement:
You will (i) use given dataset for explanatory and exploratory visualizations (ii) use the given dataset in conjunction with at most two other datasets of your choice for exploratory visualizations and (iii) **write a short report.**

Instructions:

This Challenge is open to enrolled students of CS5346 , S2 AY2019-20
Visualizations must be created by individual.
Each entry must have a contact person (full legal name and valid email address in the report).

Participants using Tableau:

Link to tableau visualization shared publicly and a short report (see template at the end of this document) in a pdf file. Name your pdf file as {your name} -COVID-19, omitting the brackets. Submit the file and one screenshot of any visualization along with the tableau link in the "details" field.

Participants using D3:
All html, script, and additional library files in the correct folder hierarchy and a README file and a short report (see template at the end of this document) in a zip file. Name your zip file as {your name}-COVID-19, omitting the brackets. Submit the file and one screenshot of any visualization along with the link in the "details" field (if visualization is hosted on a public domain).

Submisison :

- Go to the link http://dataviz-fyp20.herokuapp.com/accounts/eventdetail/7a5fdf73-8083-49bf-89e2-d8407de81657/
- Create an account if you don't have one.
- Click "Upload your submission". Fill all the details .

Dataset :

COVID-19

The dataset provided in the zip file is a copy of Covid-19 dataset. Visit here (https://www.kaggle.com/sudalairajkumar/novel-corona-virus-2019-dataset) to learn more about the data sources.

Challenge submissions must use the COVID-19 dataset(full or partial).

In addition, challenge submission could supplement this dataset with another publicly curated dataset. However, the supplementary datasets (max. 2 more datasets) must be used to facilitate additional insights from the given dataset.

There is no limit on the number of worksheets or dashboards for the submission.

The specifics of the analytic question are open-ended. However, we expect you to cover most of the following categories -

- **Spatial aspects** (involving map visualization), e.g., How different parts of the world are getting affected.?'
- **Quantitative aspects**, for instance, `How a continent/country/region is coping up better than others?'
- **Statistical aspects** (e.g. correlation, clusters), for instance, `Does access to improved health services have any correlation with death/recovery?
- **Temporal aspects**, for instance, how the situation has improved/declined over a period of time in different parts of the world?

Note: You may choose to focus on just one country only or subset of the given dataset, and find another related dataset to provide additional insights.

Tips:

Be creative with the data. Mine some **striking** insights. **Use** the flexibility of having supplementary **Tableau worksheets:** Prepare visualizations with sufficient descriptive texts.

Short Report:

Submit a short report following the template given at the end of this document. Include the URL of your tableau story or link of D3 visualization (if hosted on a public domain) in your report.

Queries:

Send your queries to CS5346.tutor@gmail.com

Judging Criteria and Rubric:

Make a timely submission, and it should truly represent the insight that you claim you have derived and self- explanatory.
Make good use of given and supplementary dataset(s) from other sources.
Find novel analytic questions/insights using those datasets.

Item / Points	1 to 2	3 to 4	5
Delivered Visualization (Given Dataset) x 1.65	Covers 2 or less category types (Out of Spatial , Quantitative, Statistical, Temporal; See previous page for details) OR not suitable choice of chart, scale, marks, channel choices	Covers 3 category types. suitable chart, scale, marks, channel choices	Covers 4 category types suitable chart, scale, marks, channel choices
Delivered Visualization (Exploration of given dataset and/or Additional Datasets) x 0.6	Limited Exploration of given dataset beyond the 4 types OR Used 1 other dataset in relation to / view of given datasets to explore insights but not much exploration and/Or not good choice of chart, scale, marks, channel choices for vis under this criteria	Extensively explored given dataset for possible insights OR Used 1-2 other datasets in relation to / view of given dataset to explore insights Suitable chart, scale, marks, channel choices	Extensively explored given dataset for possible insights AND Used 1-2 other datasets with the given dataset to explore insights Suitable chart, scale, marks, channel choices
Documentation x 0.75	(i) Description of datasets used in creating charts (ii) Analytic questions	(i) Description of datasets used in creating charts (ii) Analytic Questions (iii) partial/incomplete Visual encoding descriptions for charts of given dataset	(i) Description of datasets used in creating charts (ii) Analytic Questions (iii) Complete Visual encoding description for charts of given dataset

Report template

Covid-19 DataViz Challenge

Participant name (name as registered in CS5346) :

Email Id:

URL of Tableau story/D3 Visualization :

1. Introduction (few lines or 1 para including objective of assignment in your own words)

2. Brief description of supplementary dataset(s) – Include source of dataset, description of column fields, and how you integrate/combine this data with the given dataset in case you did

3. Pre-processing(optional) : describe why and how did you do pre-processing , cleaning of any of the datasets if you had to do so.

4. Analytic questions you pursued : Describe the questions you pursued and the insights you gained. Provide images of the visualization with each such question/insight.

5. Describe visual encoding of the visualisations you have produced.

6. (optional) Any other comments or information you may have