02/01/2022

Hi Team,

Happy New Year! I trust that you all had a happy and safe time welcoming in 2022.

Here’s team update two. I have updated my previous comments so you can discard the original version.

I have: -

1. Pushed the latest jhu\_time\_series\_analysis\_mm to github.

Note: My original upload comment is incorrect. The name of the analysis code I have been working on is:

jhu\_time\_series\_analysis\_mm

It still needs further work and I need some help.

* It has been updated it to use the JHU time series dataset
* It has been updated it to load latest % of people vaccinated (source identified in Project Proposal).
* It has been updated it to latest JHU Case Fatality Ratio and JHU Deaths per 100k People (source identified in Project Proposal).
* It has been updated to join these datasets with our selected “countries” dataframe.
* The join seems to work fine and the resulting dataframe has all the correct properties for a dataframe but when I run my plots I think that they are picking up ALL the data from the complete JHU dataframe.
* We need to try and fix this. If all else fails I have a manually produced version which we can use to produce plots for presentation purposes.
* The regression analysis is producing weird results.
  + It’s a direct copy of the successful regression analysis code from my API project.
  + I’m not sure what data it is plotting – needs further work.
  + R-square and the Equation are not working – they plot nan.
  + The x-axis is till showing “latitude” at the bottom – a hangover from the API project – despite “restarting/clearing outputs and restarting/running all” – even rebooting laptop – I cannot get rid of this. It’s all a bit of a mystery.

1. I have loaded the manually produced jhu summary stats and plotted the bar charts and done the correlation analysis for vaccinated and unvaccinated for our selected countries.
2. It requires further analysis to determine what it actually means.
3. If we can get the plotting and regression analysis working with our selected country data I think we would get a far better result (but if all else fails we can run with what we have.)
4. Pushed the latest project\_proposal to github.

It has been updated to include the links to the % of people vaccinated dataset and the JHU Case Fatality Ratio and JHU Deaths per 100k dataset.

1. We need to use this code (jhu\_time\_series\_analysis\_mm) as the basis for our final code set.
2. We then need to merge Erika’s code and John’s code with this for our final code set.
3. We need to leave the github repository structure as it as for this project. We can use the best practice approach for our next project.

I can organise a zoom session later today if you would like to catch up and discuss / confirm the next steps.

Have fun and enjoy 2022.

Cheers,

Mike