**Project Proposal**

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**Story-Telling-Question:** How effective was COVID-19 against demographics and countries?

1. **Data Type:** Healthcare – Covid-19

**Questions/Thoughts:** Who was most susceptible? Underlying conditions? Country, Weight, Age, Gender, Vaccine, Lockdown, Comorbidity, Mortality Rate Pre/Post-Vaccination, Hospitalization

**You are a scientist tasked to retrospectively prevent COVID-19 exposure and fatality. To do so you must answer the following questions:**

* How effective was the vaccination? Is there a Correlation?
  + Scatter plot % cases per population vs. % vaccinated
  + There was not much of a correlation between getting the vaccine and likely hood of contracting COVID-19
* Did booster shots have any effect on exposure rates?
  + Scatter plot
  + There is a low positive correlation between the percentage of people getting the booster shot and the number of cases in that country.
* Which continents/countries had the highest cases and fatalities?
  + The highest number of fatalities were in Czechia. (Bar chart in JavaScript)
* Which continents/countries had the lowest cases and fatalities?
  + The lowest number of deaths per population were in Australia and Japan.
* What is the mean and median age for those who tested positive?
  + The median age is 40
* Is the GDP correlated with positive tests?
  + There is a negative-low correlation between the GDP vs the positive cases. There is more of a parabola.
* How many people were tested positive for COVID-19 and hospitalized per country?
  + There is no correlation between the hospitalizations and the positive cases.
* Were hospitalizations correlated with the GDP of a country?
  + There is a low positive correlation between the number of hospitalizations and the GDP of a country.
* Is there a direct correlation between diabetes and COVID-19 deaths? Positive case?
  + There was no correlation between either diabetes prevalence and positive cases or deaths.

**Sources:** <https://www.kaggle.com/datasets/sandhyakrishnan02/latest-covid-19-dataset-worldwide>

1. A dashboard page with multiple charts that update from the same data
2. Your project should include at least one JS library that we did not cover.
3. Your project must be powered by a dataset with at least 100 records.
4. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).
5. Your final visualization should ideally include at least three views (AKA three tabs)

* SQL Database - ERD
* Jupyter Notebook/Python - To Clean Data
* HTML/CSS/JavaScript – Visualization/Dashboards/API
* PowerPoint – Presentation