Project Proposal

1. Name of your project and a short description.

Title: An Analysis of Malaysia's Immunization Against COVID-19

Short Description: I will analyze COVID-19 vaccination data in Malaysia over time. Malaysia's COVID-19 vaccination campaign was conducted February 24, 2021 to January 10, 2022. I am interested in seeing if the campaign made any difference in vaccine registration and vaccine administration during that period compared to post and pre-campaign.

Campaign: https://en.wikipedia.org/wiki/COVID-19_vaccination_in_Malaysia

2. What problem are you trying to solve, which question are you trying to answer?

I would like to see the impact of campaigns by analyzing daily rates. I will also identify spikes in vaccination rates associated with specific campaigns. I will use Plotly Dash to make an interactive feature to show this.

3. How do you intend to collect the data and where is it coming from?

Data set:
Population Data - API https://documenter.getpostman.com/view/16605343/Tzm8GG7u
Vaccine Registration Data - API https://documenter.getpostman.com/view/16605343/Tzm8GG7u
Vaccination Data - API https://documenter.getpostman.com/view/16605343/Tzm8GG7u
Malaysia State Shape File - https://cartographyvectors.com/map/1477-malaysia-with-regions

Concern: I got this API off of the provided website, but I am not sure where I can find more information about how the data was taken. Do you have any leads?

4. What analysis will you do and what kind of visualizations are you going to create?

Concern: I would like to use more advanced data science techniques, but I would like to know if you have any ideas. I was thinking about making a predictive model to predict a future daily vaccination count.

Visualization: Population By State (colored map)
Visualization: Total Vaccine Administration in each State by Month (Line Graph?)
Plotly Animation: Total Registration by State over time
Plotly Animation: Total Vaccine Administration by State over time