**Title:**

Finding the Deterministic Variables in COVID-19 Outcomes

**Purpose:**

Explore the impact on health outcomes related to COVID-19 from three sets of variables for counties in the US and extrapolate our findings onto outcomes as they impact Harris County.

**Variables (Tasks broken down w/ initials):**

* **Societal** 
  + Age - NV
  + Race - MB
  + Income - MB
  + Population Density - MB
  + Hospital capacity - MB
* **Political**
  + Days from first case to:
    - State recommendation for shelter in place - EL
    - State mandate for shelter in place - EL
  + Days from CDC recommendation to wear masks to adoption
    - Start, End, if at all - EL
    - Democratic/Republican/Mixed - EL
* **Other**
  + Weather - NV
  + Testing Capacity (Testing site density) - NV

**Outcomes:**

To determine the outcomes of the variables referenced above we will attempt to correlate all quantitative variables against:

* Recovery Rates
* Mortality Rates
* Transmission growth rates

Our goal is to understand how these variables have impacted counties thus far in order to develop data-based prescriptive advices on our county (Harris County).

**Datasets:**

* [**https://www.kaggle.com/ringhilterra17/enrichednytimescovid19**](https://www.kaggle.com/ringhilterra17/enrichednytimescovid19)
* [**https://www.kaggle.com/davidbnn92/weather-data/output**](https://www.kaggle.com/davidbnn92/weather-data/output)
* [**https://www.kaggle.com/jaimeblasco/icu-beds-by-county-in-the-us**](https://www.kaggle.com/jaimeblasco/icu-beds-by-county-in-the-us)
* Census Demographic Data by County
* Google Weather Data
* Policy Decisions by State