Happiness – Driving Resilience for Covid-19

# Team 2:

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# Project Description outline:

With the COVID 19 pandemic surging in the US, we will attempt to quantify a correlation between a population’s measured sate of happiness and its resilience in managing COVID 19. Using happiness data from 2020 that uses a weighted score of several criteria per state, we will overlay the mortality rate of COVID infections to test whether any or all of the criteria of measured happiness has a material impact on a population’s ability to recover and reduce the comorbidity associated with COVID.

# Research Questions to Answer:

* Is the total measured happiness by state negatively correlated to the mortality rate of COVID-19?
* Do the individual measures happiness by state contribute more strongly to a negative correlation of the mortality rate?
  + Emotional & Physical well being
  + Work Environment
  + Community & Environment

# Datasets:

* + State Happiness Index (2020) --Published by Wallethub.com

<https://worldpopulationreview.com/state-rankings/happiest-states>

* Current State Infection and mortality of COVID-19—Published by Johns Hopkins University

<https://documenter.getpostman.com/view/10808728/SzS8rjbc?version=latest>

# Rough Breakdown of Tasks:

* + Build Dataframe (extract, transform/clean, load)
  + Analysis of data in data frame
  + Four comparison charts (total and three bullets above)
  + Regression analysis
  + Conclusions from data analysis