**Covid mortality rate vs population density**

**Hypothesis**

Population density does not contribute to mortality vs Population does contribute to mortality

* Covid data from CDC 3/15/2020 – 6/15/2020
* Population data from U.S. Census (Utah, Oregon, Connecticut)
  + Compare death rates of three states vs money spent
  + Compare unemployment rate vs deaths
  + Hard lock downs vs death rates
  + “Natural immunity” vs Vaccination rates
  + ICU capacity vs deaths

**Machine Learning Segment - Covid Spread**

Mortality rates print out, look at how much each factor is contributing to mortality rate. Make predictive models that can predict outcome. Which outcome effects percentages most. Apply to each state. Then we could compare population rate to mortality rate. Final analysis compares predictive vs actual outcomes. Dig into outlier counties.

**Two charts** – predictive model of three states vs reality of same three states

**Next Steps**

* Collect Data
* Post to Git hub
* Machine learning
* Data projections
* Tableau

**Data mediums**

* Postgres (CSV)
* ERD
* Tableau
* SQL
* Python

**Delegated Assignments**

* Stephen Cantwell – Data collection (Population density table)
* Graeme Rennie – Data collection (Population, State cases/deaths, Hospital ICU capacity)
* Chad Dewey – Data collection (Vaccination Percentages by state)
* Juan - Data collection (Unemployment data for each state)