

Dashboard Overview

Project SARS-CoV2

Data Analytics Bootcamp Capstone Project



Covid Dashboard Overview

- Project Dashboard - Tableau Public
 - Base Sheets for each segment
 - Dashboard composed of sheets for each
 - Story combining all Dashboards to connect project end to end

Project Overview

- Problem Statement/ Hypothesis
- Baseline data
-

Project Data/ Pre-processing

- Data Sources
- Data Exploration
- Data Synthesis
-

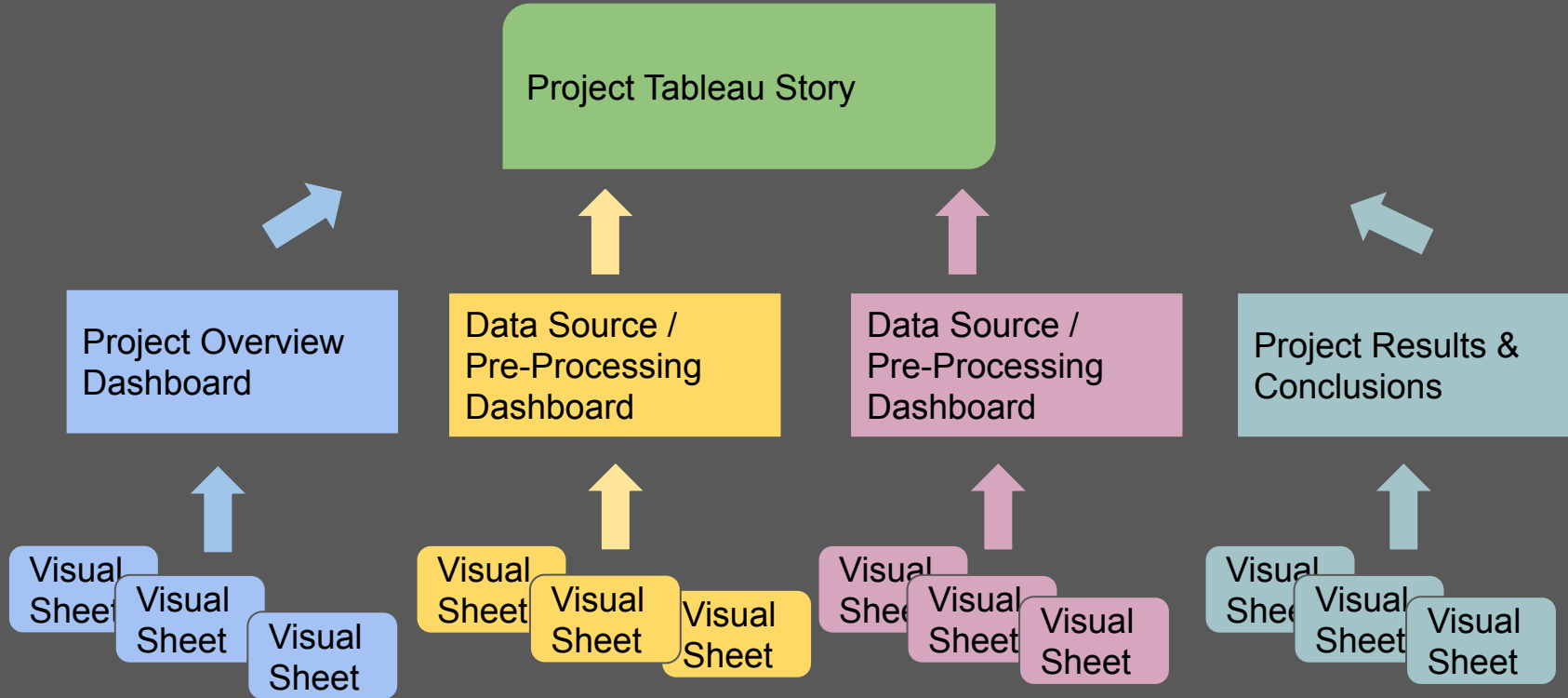
Machine Learning Results

- Model Accuracies
- Model Predictions
- Static Visuals

Project Results & Conclusions

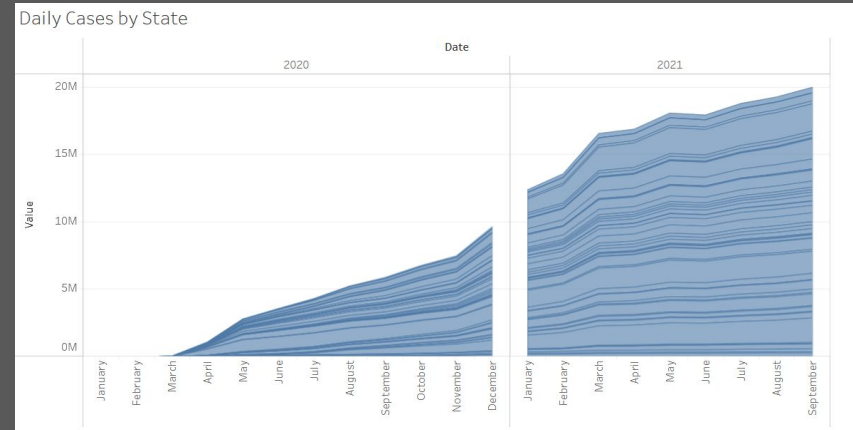
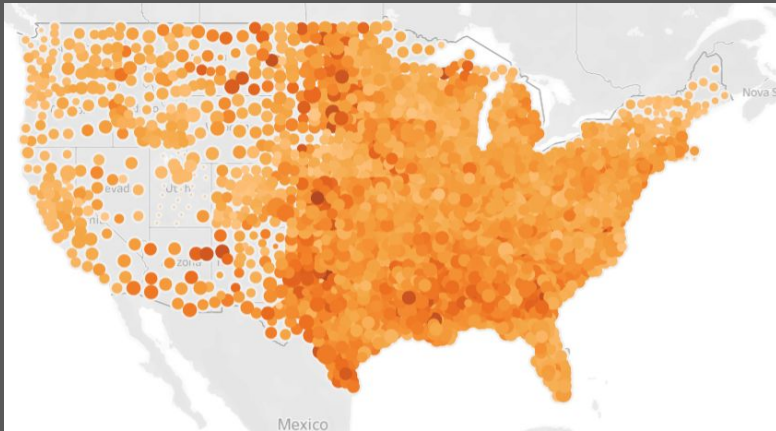
- Key Findings
- Model usability
- Next iteration of modeling

Project Dashboard Architecture



Project Overview Sheets/Dashboard

- Purpose: Present problem statement and hypothesis for the project
- Visuals of Covid baseline for date scope of project
 - Interactive maps of Covid case/mortality by county
 - Timeline area chart of Covid cases/death over project study timeline



Project Data

Social Vulnerability Index

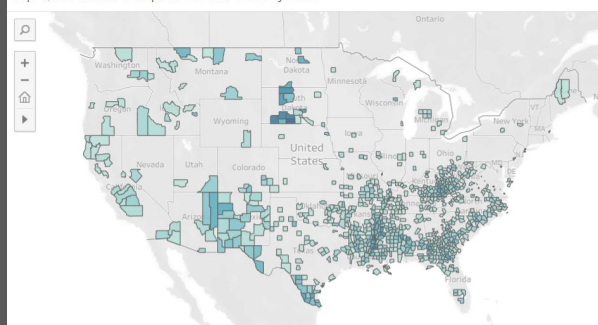
- Socioeconomic factors
- Household Composition
- Minority Status
- Housing / Mobility
- Underinsured

- Covid Case/Mortality
- By State
- By County

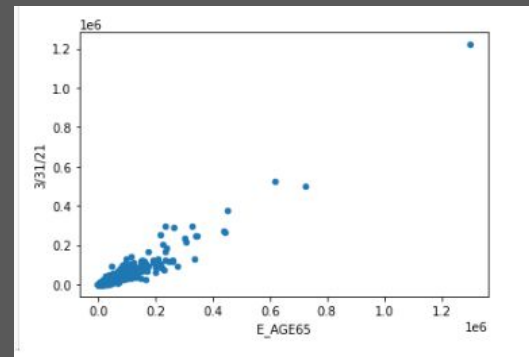
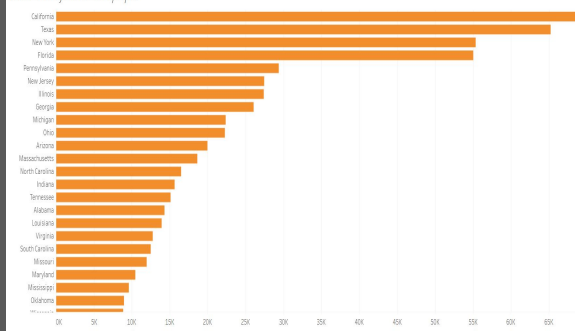
Other Project Data

- Social Factors
- Voting records
- Hospital capacities

Top Quartile of People Below Poverty Line



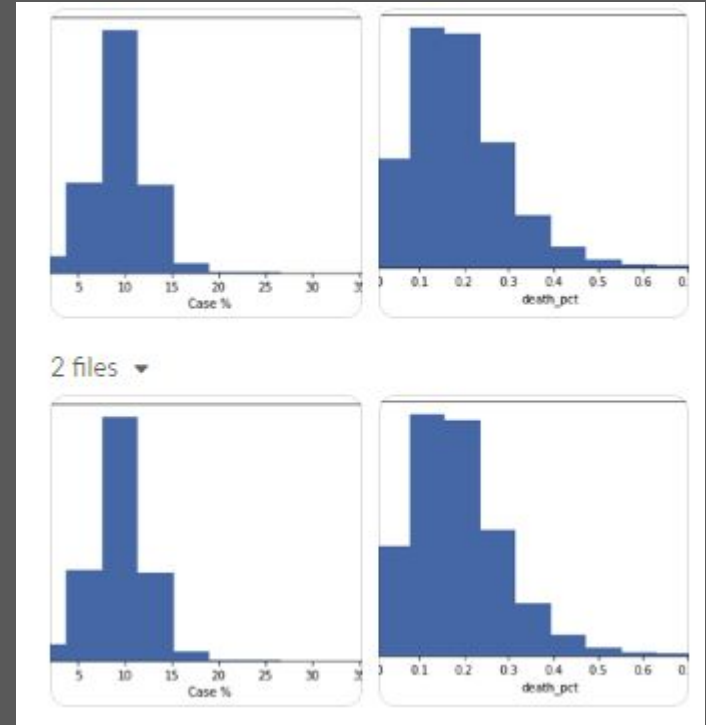
Total Cases by State as of 9/30/21



Machine Learning Results

- Present results of Machine Learning Model(s)
- Present various graphs of model outputs
 - Accuracy / Confusion matrix
 - Predicted values vs. actual
- Interactive features proposed:
 - Model scenarios - based on input data sets
 - Geographic filters for predicted values

Classification Report				
	precision	recall	f1-score	support
0	0.87	0.94	0.90	764
1	0.50	0.28	0.36	154
accuracy			0.83	918
macro avg	0.68	0.61	0.63	918
weighted avg	0.81	0.83	0.81	918



Project Results and Conclusions

Purpose: Present final data output vs. Problem statement

- Visuals

- Output predicting geographic “hot-spots” of case/mortality
- Interactive selection of geographic output display
 - Cases / Deaths
- Output vs Test Data

