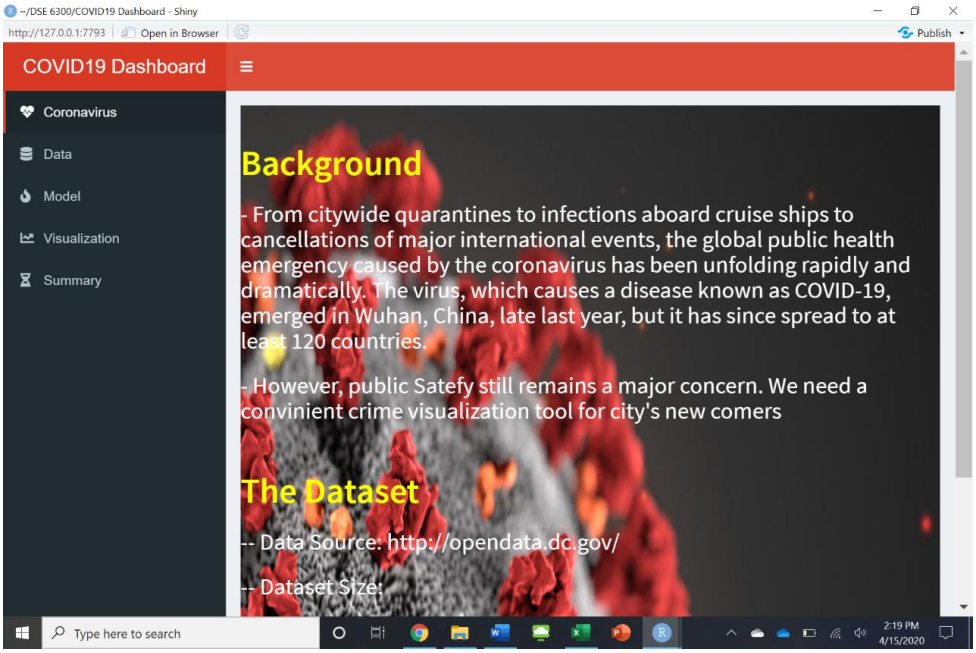
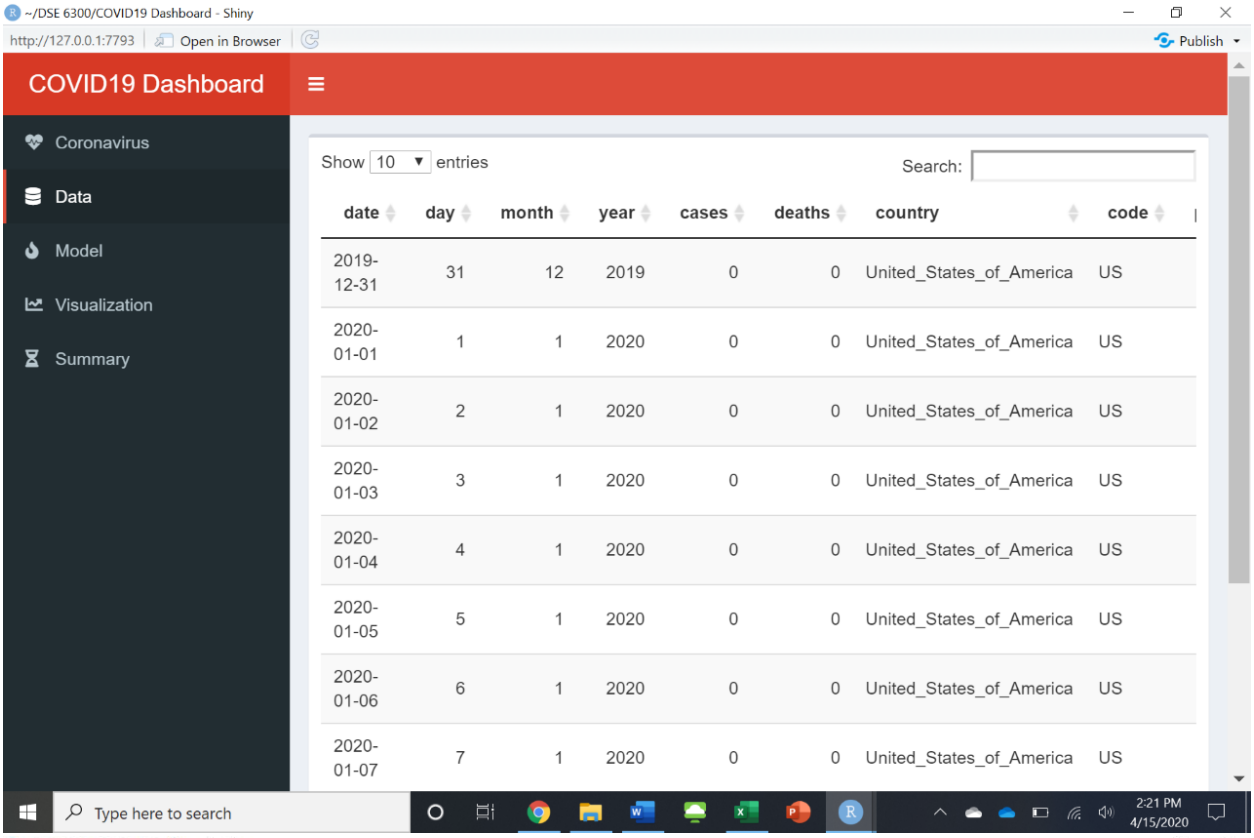
Checkpoint 2

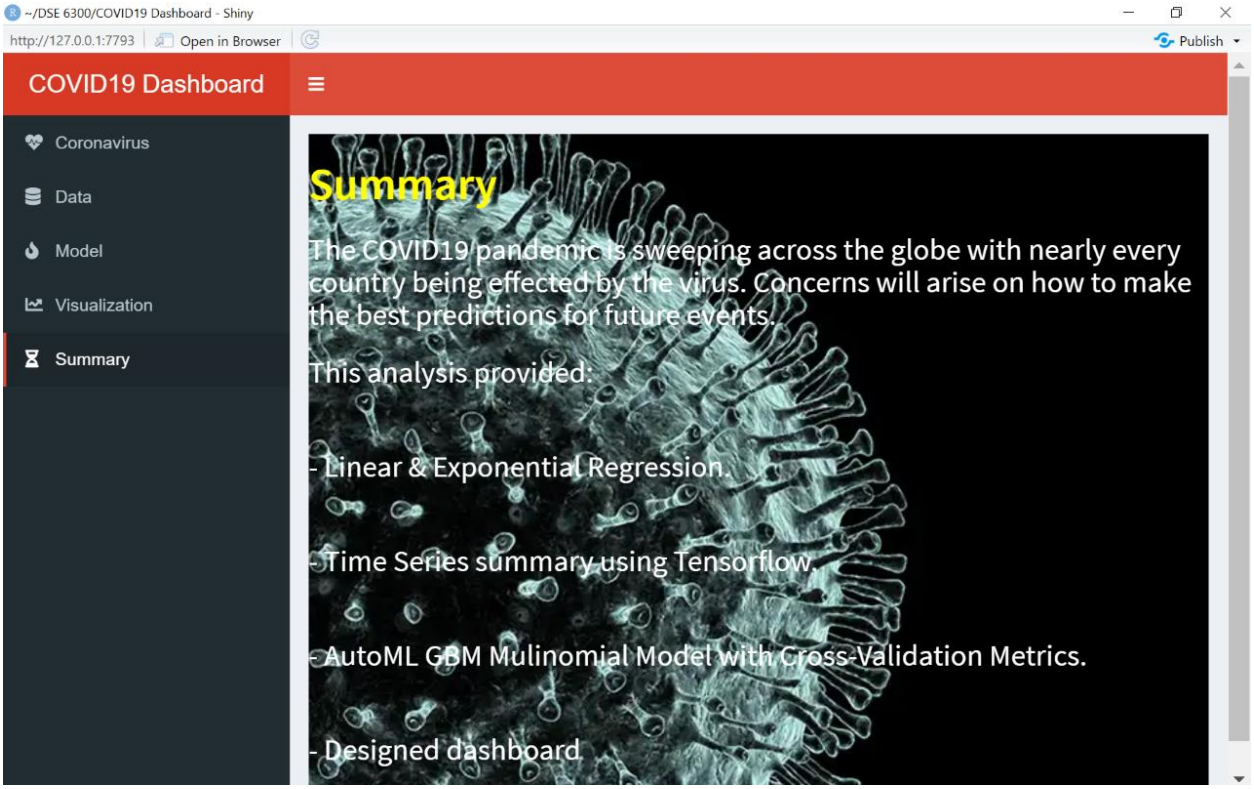
1. **What did you do this week?**
   - Configured and installed the remaining components on my Grid RStudio notebook & server to use SparkR, sparklr, RStudio, Shiny, and Spark properly.
   - Completed linear, non-linear, and started a possible exponential regression with varying results.
   - Completed AutoML GBM Multinomial model that provided exceptional results.
   - Created a baseline time series with minor results.
   - Configured dashboard UI, global, server, and CSS folders in dashboard.
   - Made 5 commits this week to the GitHub.
2. **What are you planning to do next week?**
   - Combine all models for presenting purposes.
   - Complete PowerPoint for final presentation.
   - Possibly adjust models for more complexity in operational dashboard.
   - Finalize dashboard CSS fonts, colors and style.
   - Complete final dashboard development.
   - Make final commit to COVID19 GitHub repo with final project accompanied with code, project schedule, data, and findings.

3. **What problems are you having?**
   - Configuring HDFS locally with Windows 10 (close to figuring it out).

Dashboard screeshots:




~/DSE 6300/COVID19 Dashboard - Shiny
http://127.0.0.1:7793
Open in Browser
Publish
COVID19 Dashboard
Coronavirus
Data
Model
Visualization
Summary
Show 10 entries
Search:
date day month year cases deaths country code
2019-12-31 31 12 2019 0 0 United_States_of_America US
2020-01-01 1 1 2020 0 0 United_States_of_America US
2020-01-02 2 1 2020 0 0 United_States_of_America US
2020-01-03 3 1 2020 0 0 United_States_of_America US
2020-01-04 4 1 2020 0 0 United_States_of_America US
2020-01-05 5 1 2020 0 0 United_States_of_America US
2020-01-06 6 1 2020 0 0 United_States_of_America US
2020-01-07 7 1 2020 0 0 United_States_of_America US
Type here to search
2:21 PM
4/15/2020


~/DSE 6300/COVID19 Dashboard - Shiny
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COVID19 Dashboard
Coronavirus
Data
Model
Visualization
Summary
Summary
The COVID19 pandemic is sweeping across the globe with nearly every country being effected by the virus. Concerns will arise on how to make the best predictions for future events.
This analysis provided:
- Linear & Exponential Regression.
- Time Series summary using Tensorflow.
- AutoML GBM Mulinomial Model with Cross-Validation Metrics.
- Designed dashboard