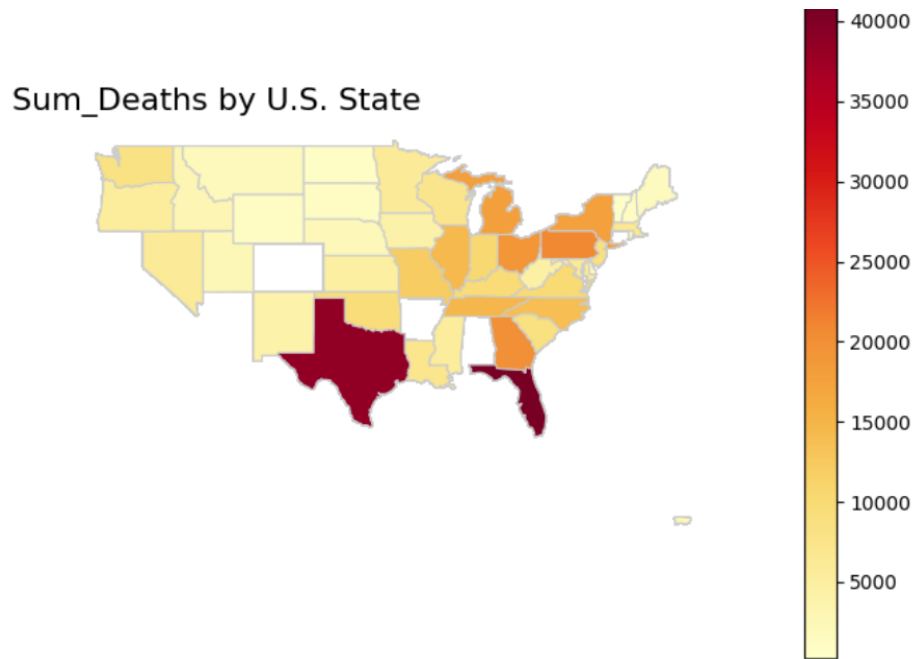# Final Project – Visualizations

DECEMBER 2023

Team

1. Hossein Khoshhal (hkhoshha)
2. Keerthi Jayaram (keerthij)
3. Sathiya Chakravarthy (sathiyac)
4. Sivashakti Komaragiri (skomarag)
5. Tejo Vinay Potti (tpotti)
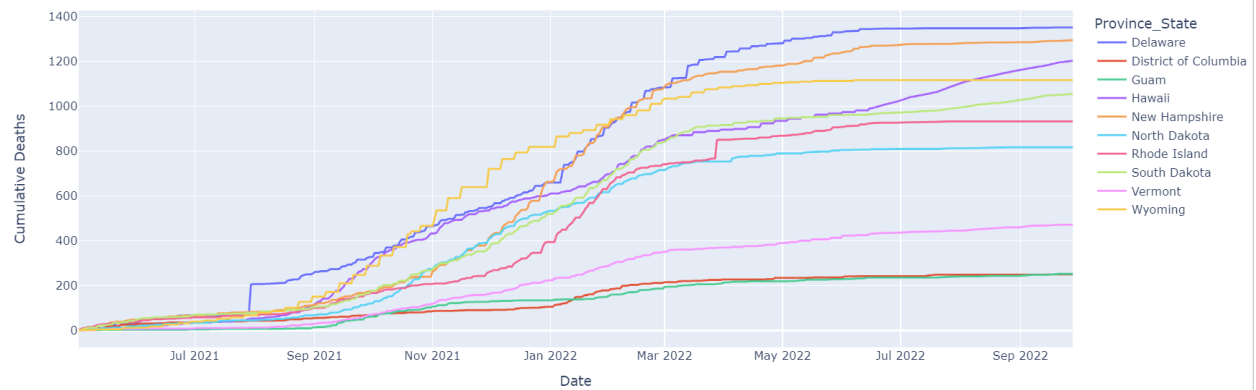
Exhibits

Choropleth indicates the total number of COVID deaths per state. Of the data available in the plot, the most affected areas were Texas, Florida, and Pensylvania.

Cumulative Death Rates - Top 10 States
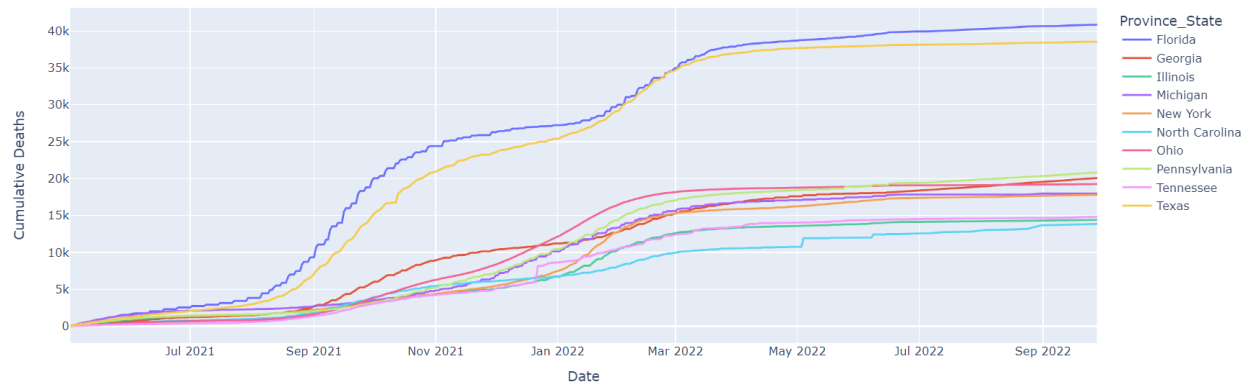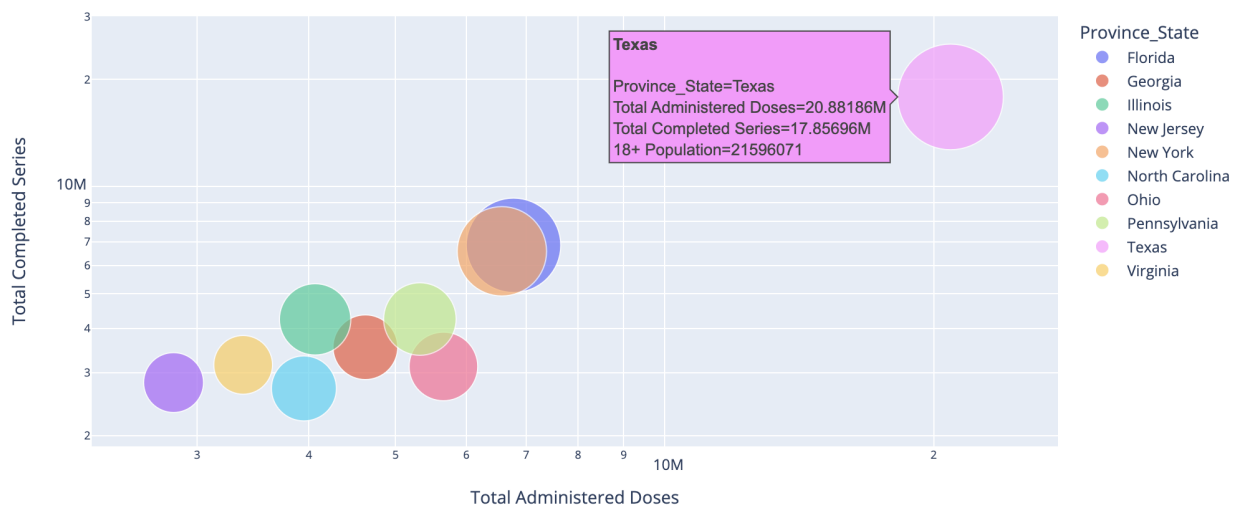

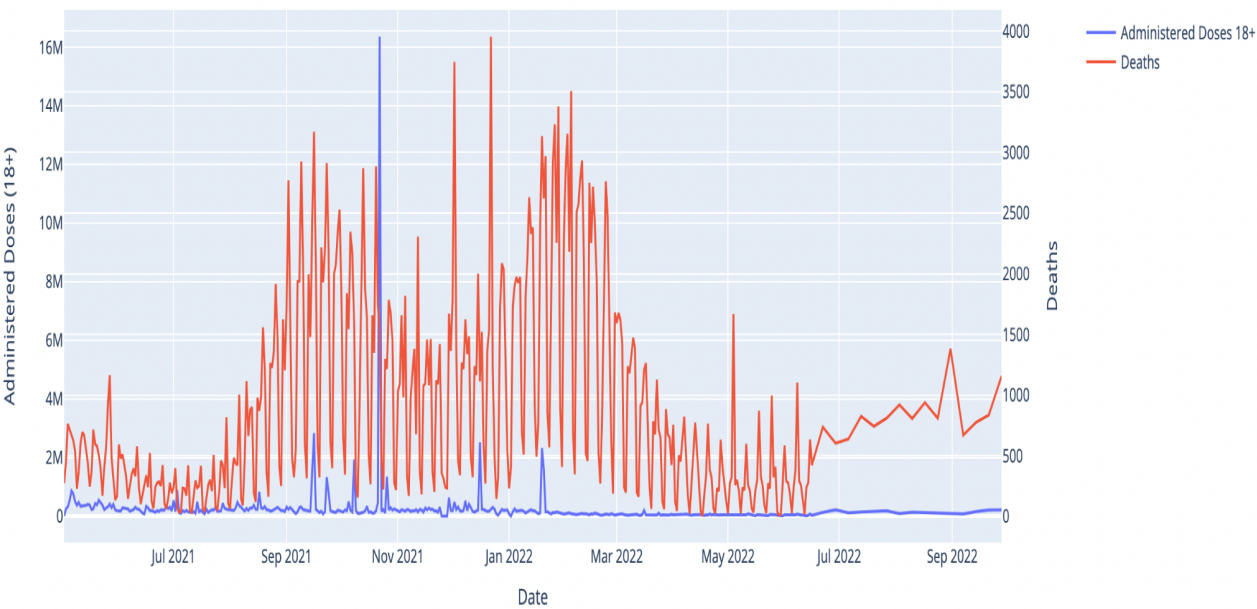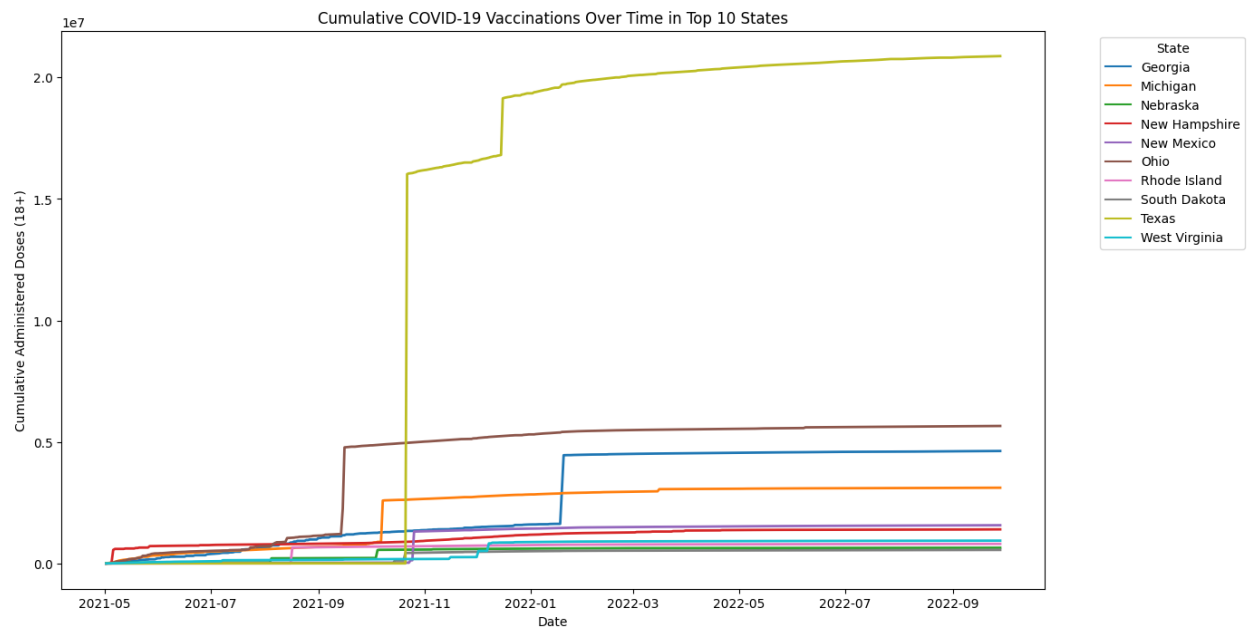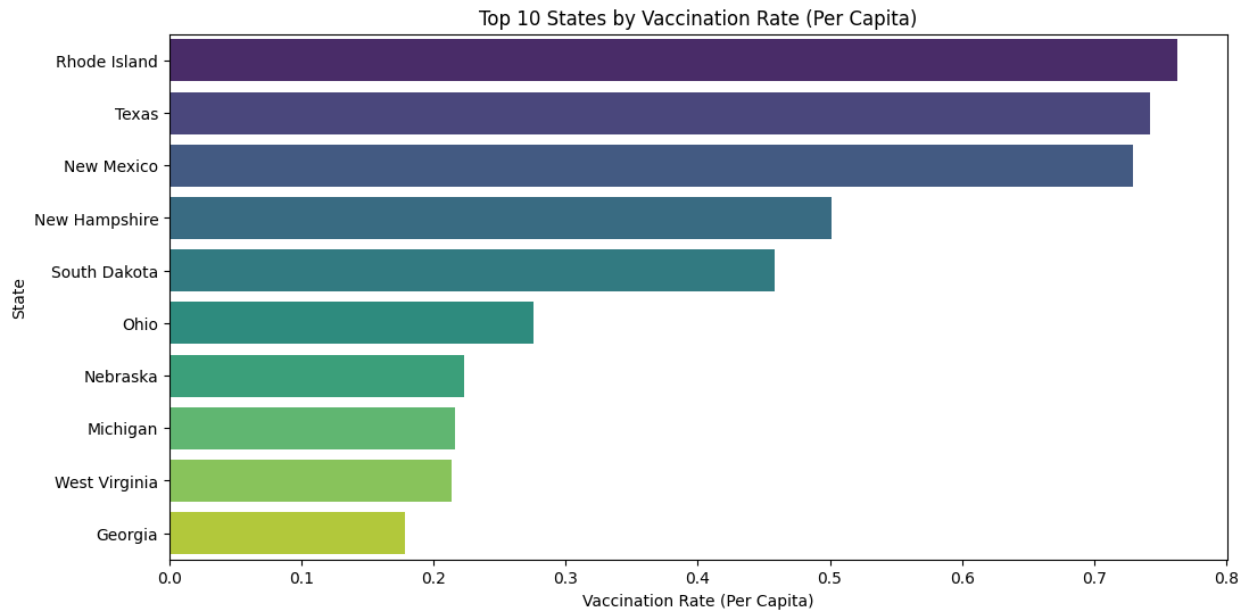## Cumulative Death Rates - Bottom 10 States

Both the Top Ten States with the most and least reported COVID deaths were mapped here. The line plot indicates the cumulative death count for each state. The sharp spikes indicate dates where COVID deaths peaked on a given day, while flatlines were days with zero deaths reported.

Relationship Between Administered Doses, Completed Vaccine Series, and Deaths for Top 10 States

Province_State
- Florida
- Georgia
- Illinois
- New Jersey
- New York
- North Carolina
- Ohio
- Pennsylvania
- Texas
- Virginia

Texas

Province_State=Texas
Total Administered Doses=20.88186M
Total Completed Series=17.85696M
18+ Population=21596071

COVID-19 Vaccination (18+) and Deaths Over Time

- Administered Doses 18+
- Deaths

Top 10 States by Vaccination Rate (Per Capita)

Cumulative COVID-19 Vaccinations Over Time in Top 10 States

21-Day Rolling Average of COVID-19 Vaccinations and Deaths

Daily Statewise COVID-19 Vaccination and Deaths (Interactive Map)
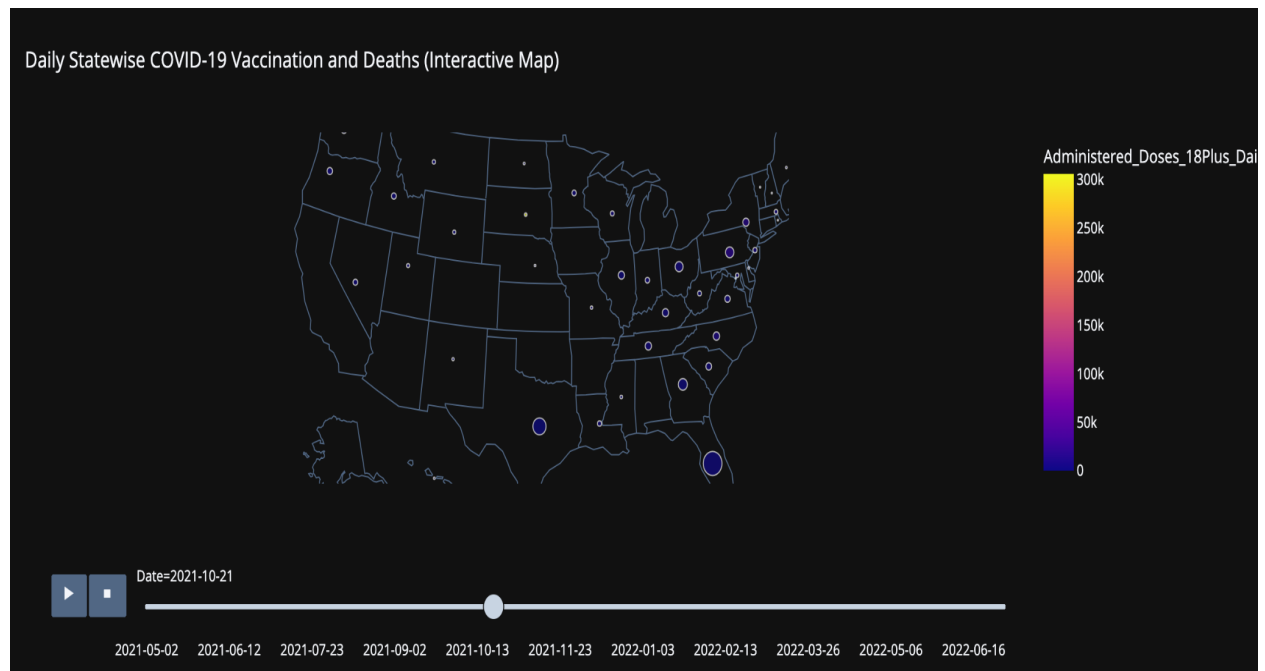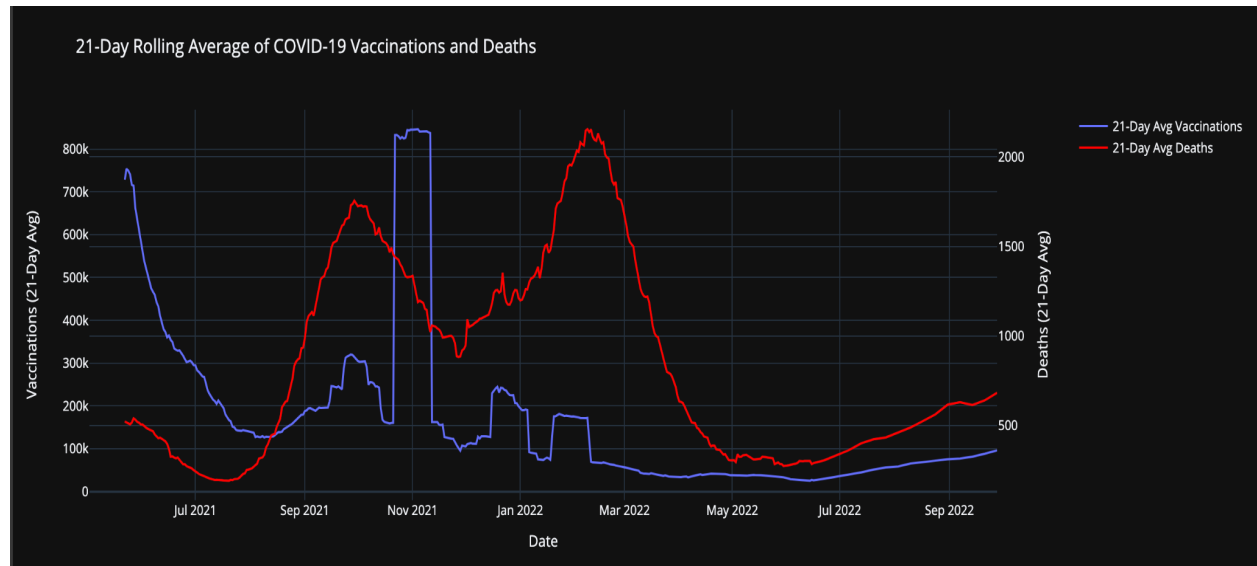
References:

[COVID-19 Vaccinations in the United States,County | Data | Centers for Disease Control and Prevention (cdc.gov)](cdc.gov)

[vaccines/data at main · ds5010/vaccines (github.com)](github.com)

Personal Consultation with OpenAI's ChatGPT (see details in *Interactions.pdf*)

[COVID-19/csse_covid_19_data/csse_covid_19_daily_reports_us at f57525e860010f6c5c0c103fd97e2e7282b480c8 · CSSEGISandData/COVID-19 (github.com)](https://github.com)

https://stackoverflow.com/questions/61615818/setting-up-mlflow-on-google-colab