# Road Tripping Across the United States

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## Topic Overview

• Summer vacation time is here, but covid is still around. Trying to plan a road trip across the United States while keeping everyone's health in mind can be tricky. Using the Covid-19 Dashboard, users can easily identify which areas to avoid.

- Covid-19 data: cases, deaths, and vaccinations in the US and global counts of cases & deaths
  - <a href="https://covid.cdc.gov/covid-data-tracker/#datatracker-home">https://covid.cdc.gov/covid-data-tracker/#datatracker-home</a>
  - https://covid19.who.int/



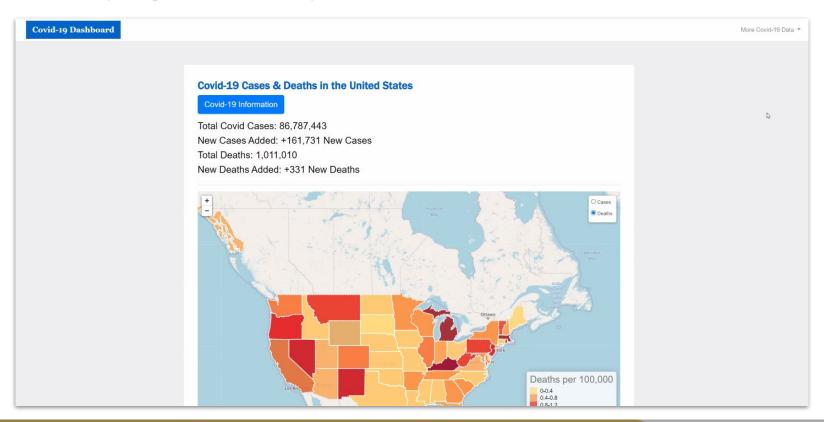
# Data Cleaning/Manipulation & Conversion

- Pandas
  - Selected specific columns
  - Dropped/ excluded Territory data

cleaned_covid_	case da	taframe										
State/Territory	Total Cases	Cases in Last 7 Days	Case Rate per 100000	Total Deaths	Deaths in Last 7 Days	Death Rate per 100000	7-Day Cases Rate per 100000	7-Day Death Rate per 100000	New Cases	New Deaths	latitude	longitude

cleaned_covid_v	/accine data	aframe:					
State/Territory	Total Doses Distributed	Doses Distributed per 100K	Total Doses Administered by State where Administered	Doses Administered per 100k by State where Administered	People Fully Vaccinated by State of Residence	latitude	longitude

## Webpage Development



## Web Scraping

- MongoDB and Flask
- Dashboard data web scraped from CDC site

TOTAL CASES 86,379,937

+185,237 New Cases

7 DAY CASE RATE PER 100,000 209.5

1,009,440

+460 New Deaths

Total	Vaccine	Doses
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Distributed

757,425,455

Administered

591,982,644

221.9M

People fully vaccinated

At Least One Dose Fully Va	accinated	
Vaccinated People	Count	Percent of US Population
Total	259,148,285	78.1%
Population ≥ 5 Years of Age	259,011,907	82.9%
Population ≥ 12 Years of Age	248,611,071	87.7%
Population ≥ 18 Years of Age	230,981,792	89.4%
Population ≥ 65 Years of Age	57,075,037	95%

## Leaflet

Choropleth leaflet

#### Covid-19 Cases & Deaths in the United States

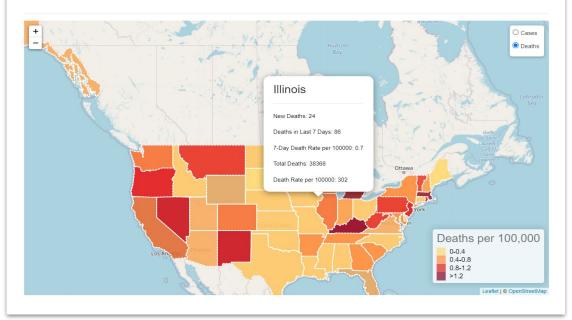
#### Covid-19 Information

Total Covid Cases: 86,787,443

New Cases Added: +161,731 New Cases

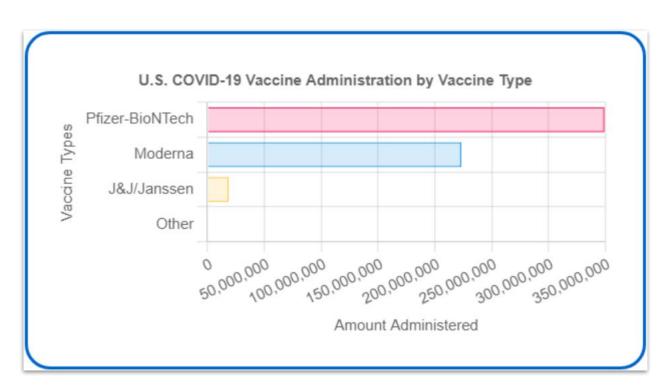
Total Deaths: 1,011,010

New Deaths Added: +331 New Deaths



### **Bar Chart Creation**

• Chart.js



## Conclusion

- Displays Covid-19 information for the last 7 days in the United States
  - Case, death, vaccine information per state found on map
    - Result: safe & enjoyable road trip



# Questions?



