# CS6620 Covid-19 vaccination visualization

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#### Introduction

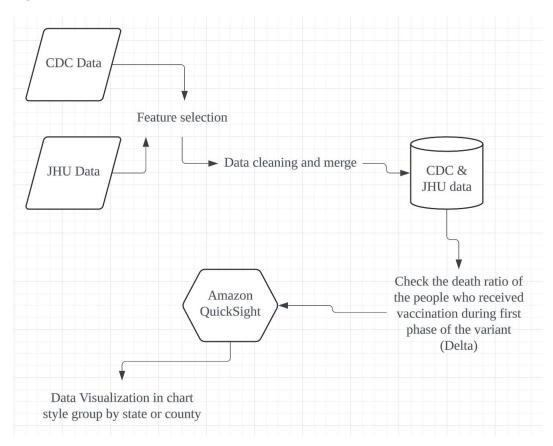
This project is main focus on exploring the relationship between Covid-19 vaccinations and deaths attributed to Covid-19 in the U.S. between 03/01/21 - 11/30/21 to visualize the Covid-19 vaccination over time.

And using Covid-19 vaccination data to learn how to store data in AWS S3 bucket and visualize data by AWS QuickSight.





#### Infrastructure Diagram



#### Data

- CDC (Vaccination data)
  - Updated daily since May 24, 2021
- JHU (Death data)
  - Updated daily as well

For this project, I am focusing on the following 9 months time frame, from 03/01/2021 to:

- March 31, 2021
- April 30, 2021
- May 31, 2021
- June 30, 2021
- July 31, 2021
- August 31, 2021
- September 30, 2021
- October 31, 2021
- November 30, 2021

#### Upload local data file to S3 bucket

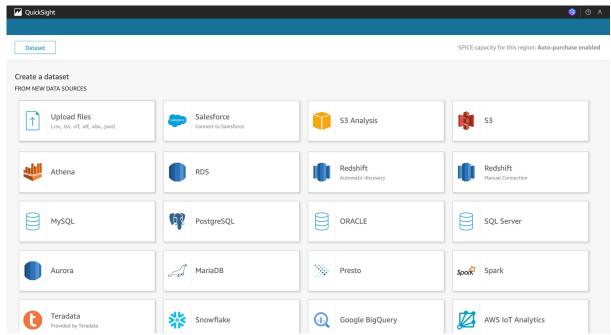
- Sign in to the AWS Management Console
  - Go to the AWS Management Console.
  - Sign in with your AWS credentials.
- Navigate to the S3 Service
- Select Your S3 Bucket
  - In the S3 console, find and click on the bucket where you want to upload the file.
- Upload the File
- Verify the Upload



#### Connect S3 bucket to QuickSight

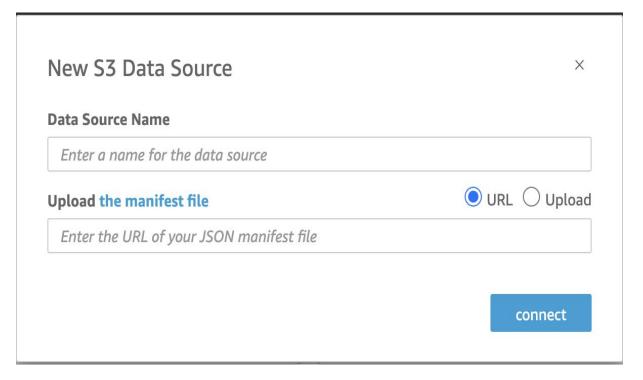


### **amazon** QuickSight



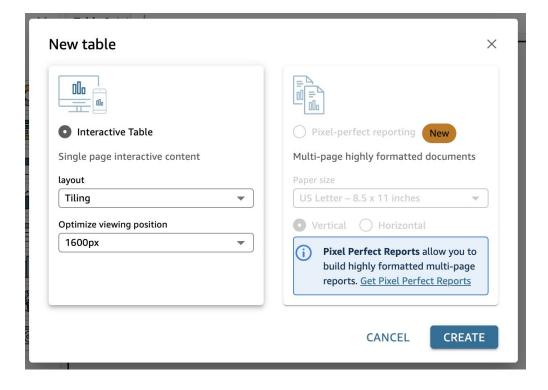
#### Connect S3 bucket to QuickSight





Need manifest.json to upload data file from AWS S3 bucket to AWS QuickSight

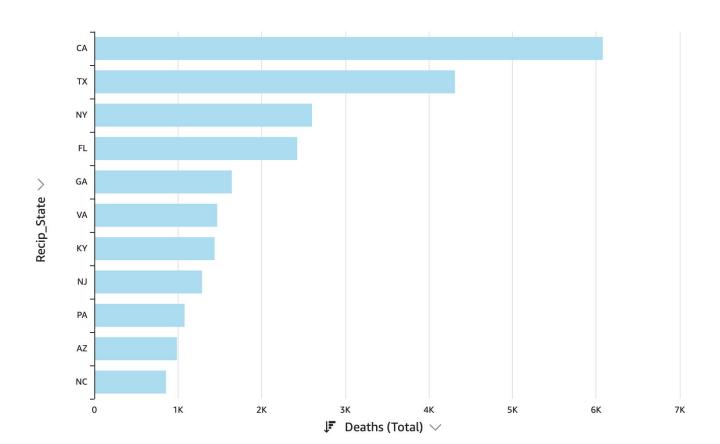
#### Connect S3 bucket to QuickSight



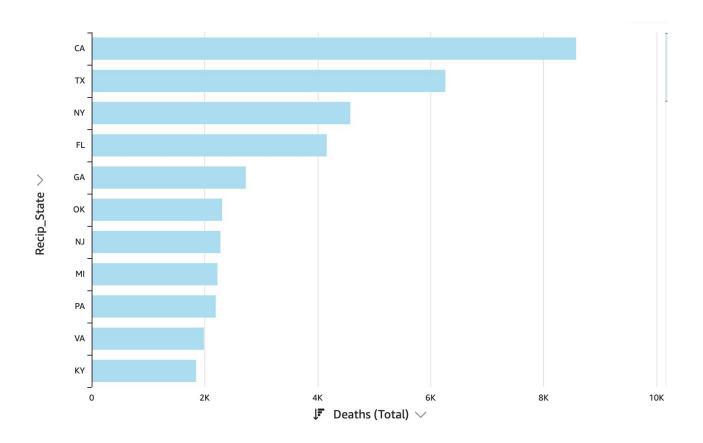


## **amazon** QuickSight

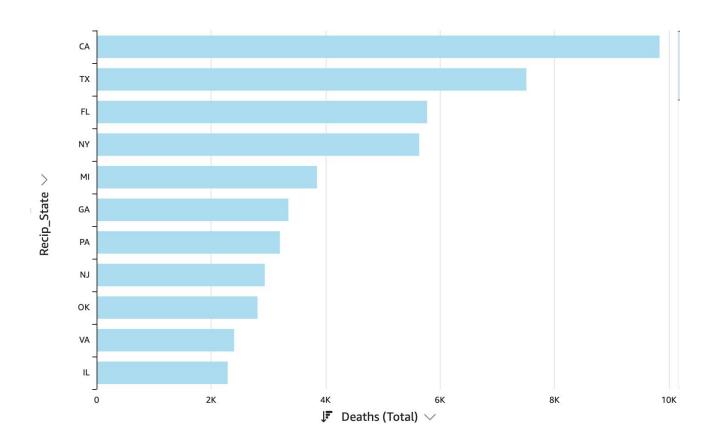
#### 03/01/2021 - 03/31/2021



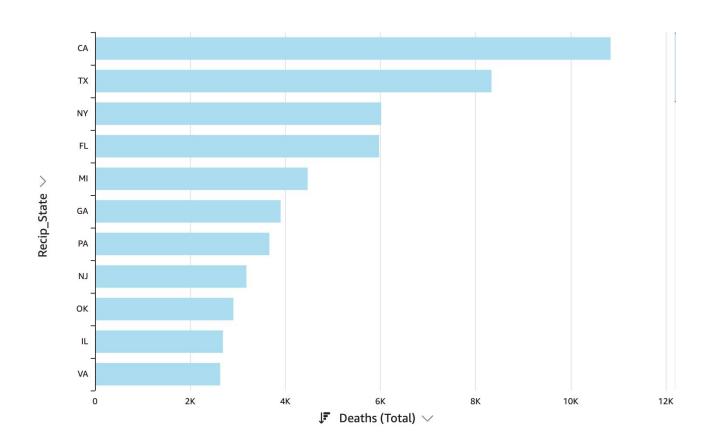
#### 03/01/2021 - 04/30/2021



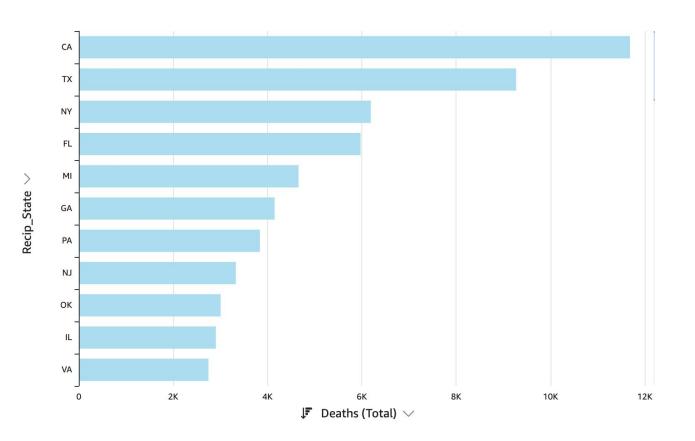
#### 03/01/2021 - 05/31/2021



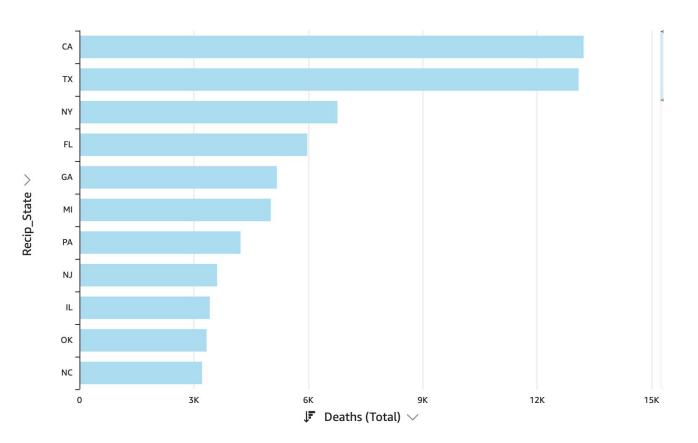
#### 03/01/2021 - 06/30/2021



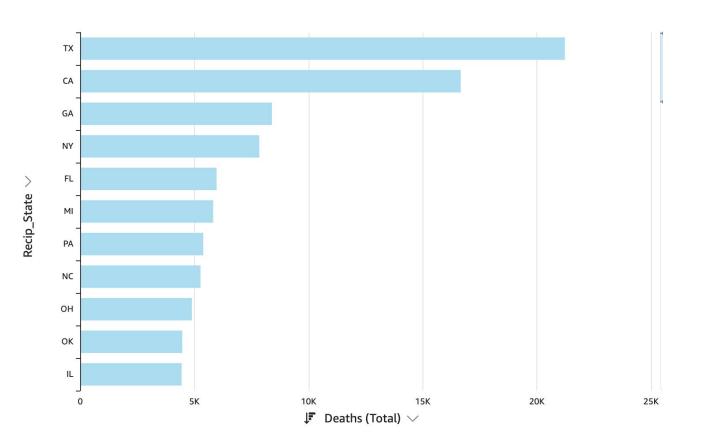
#### 03/01/2021 - 07/31/2021



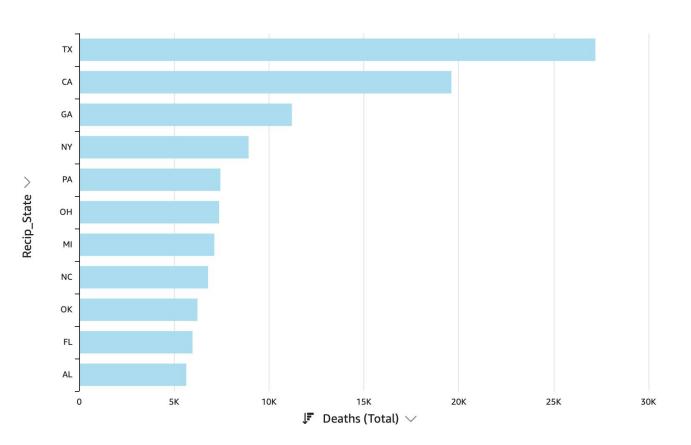
#### 03/01/2021 - 08/31/2021



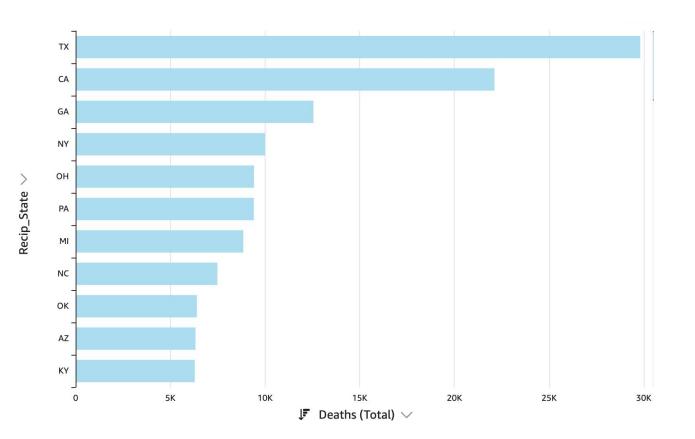
#### 03/01/2021 - 09/30/2021



#### 03/01/2021 - 10/31/2021



#### 03/01/2021 - 11/30/2021



#### Insights

According to the above graphs, from 03/01/2021 to 08/31/2021, **CA**, **TX**, **NY**, and **FL** are keep staying **top 4** most death cases.

From 08/01/2021, **GA** came to top 4 list.

Until 11/30/2021, TX cross CA become the top 1 most death cases and keep serious.

## Thank you!