



# About Me

My name is Candide Kasa. I was born in DR Congo and moved to England when I was 2 years old.

I recently graduated for the University of Law, with First Class honours in LL.B Law with Criminology.

I am currently working with DWRM, a social enterprise that is dedicated to helping those in prison have access to higher education. My Working days are filled with data entry tasks and supporting students with their assignments.

I love learning new things, I always get a sense of fulfilment when I am able to achieve. In my household I am the go to tech person, because if there is a problem I won't stop until I find a solution.

Presentation by **CANDIDE KASA**



# The Colour of COVID-19

NIYO BOOTCAMP ✦ DATA ANALYTICS WITH PROJECT MANAGEMENT ✦ PROJECT 3



# Objectives

## Topic

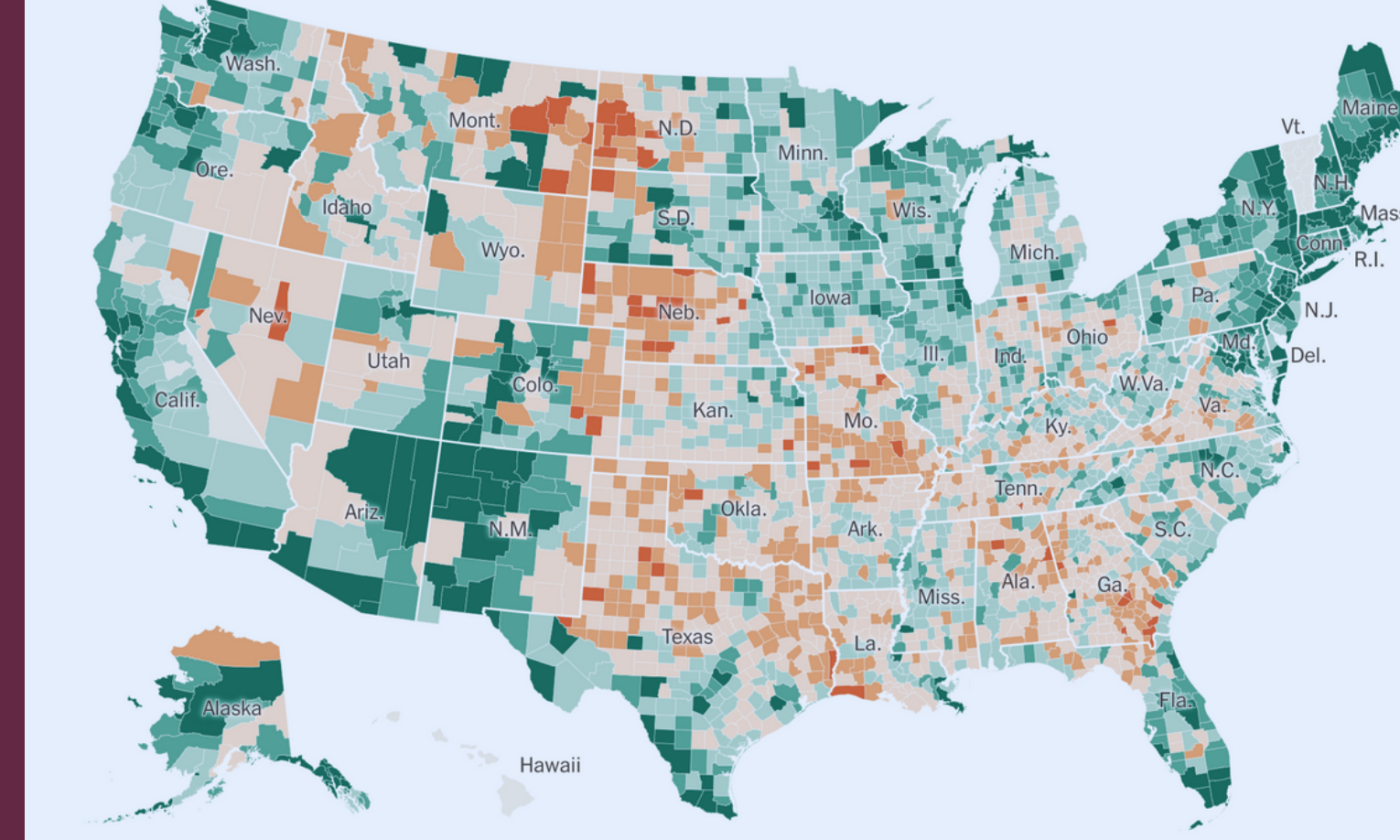
COVID-19 and its impact on communities of colour in the U.S

## My Problem Question

Did COVID-19 have a disproportional impact on ethnic minorities in the U.S?

## Aim and Importance of this Question

The Pandemic exacerbated pre-existing structural inequalities in the U.S. I'm asking this question to gage how much this contributed to the high level of infection and mortality among POC. In attempt to make informed decisions on what needs to be improved to reduce the risk posed to ethnic minorities.



# Excel Findings

- 1.What is the total number of cases and deaths for each race/ethnicity?
- 2.What is the number of cases and deaths by state?

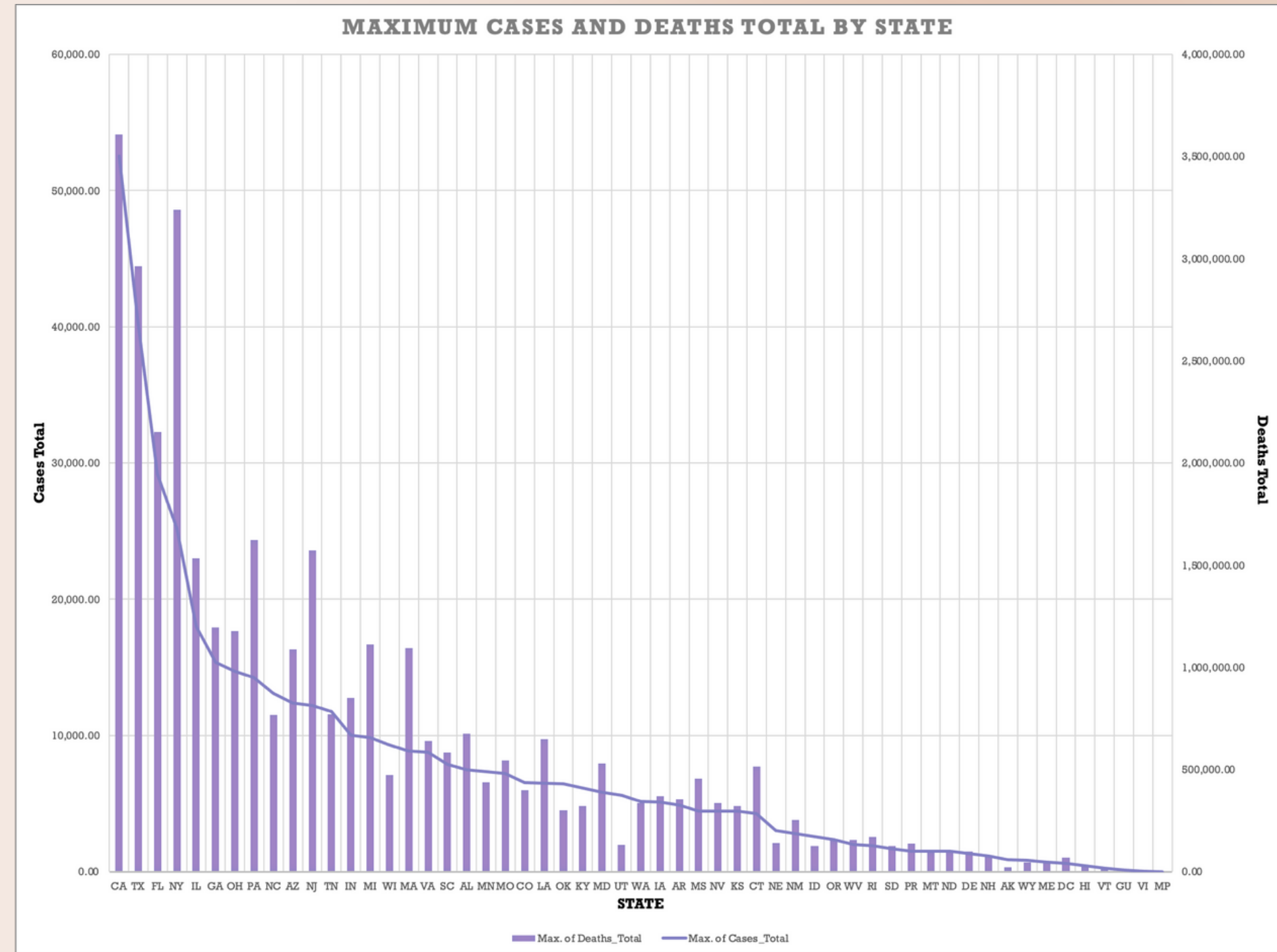
Used of Pivot tables

- 3.What is the percentage of cases for each race/ethnicity compared to the total number of cases?

I used MAXIFS to calculate this

- 4.What is the average number of deaths by race/ethnicity over a certain time period?

I used AVERAGEIF to conduct my time analysis



# Python Analyses



# SQL Analyses

Main tool for cleaning my data:

- Removed null values – `is.null.sum()`, `null = CRT.iloc[:, 3:].isnull().all(axis=1)`
- Corrected the format and datatypes

```
[7] from datetime import date

[8] CRT['Date'] = CRT['Date'].values.astype('str')

[9] CRT['Date'] = pd.to_datetime(CRT['Date'], format='%Y/%m')

[10] CRT['Date'] = CRT['Date'].dt.date #removed the timestamps

[11] CRT['Date'] = pd.to_datetime(CRT['Date'])

[12] print(CRT['Date'].dtype)

datetime64[ns]
```

```
[79] null = CRT.iloc[:, 3:].isnull().all(axis=1)
      null_rows = CRT[null]
```

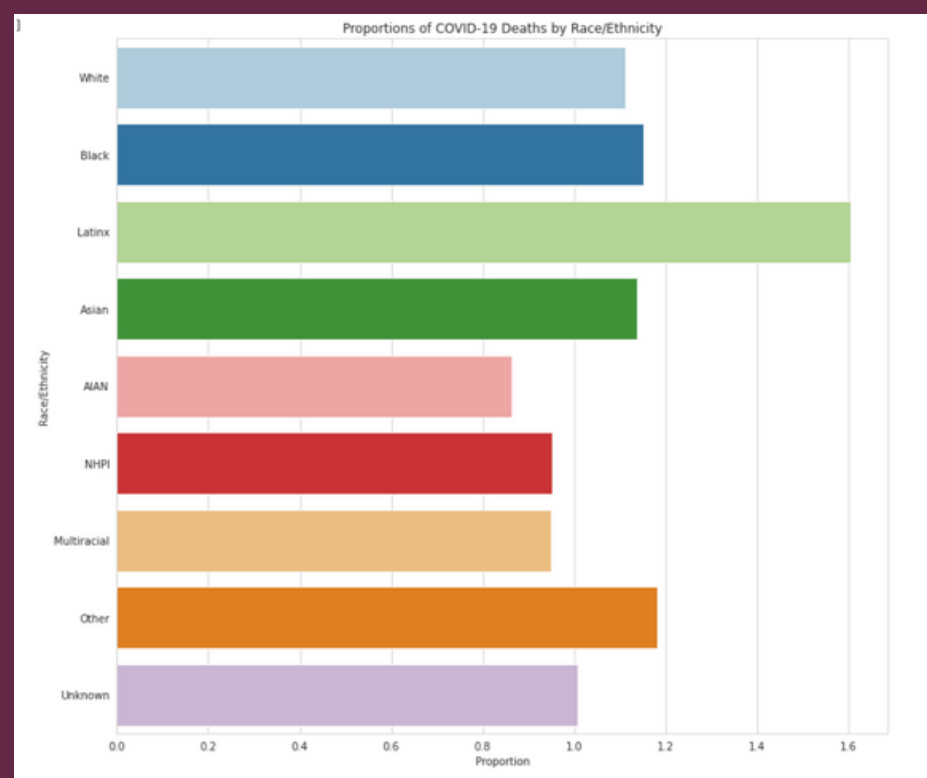
```
print(null_rows.to_string(justify='left'))
```

```
Tests_AIAN      4861
Tests_NHPI      4965
Tests_Multiracial 5069
Tests_Other      4757
Tests_Unknown    4757
Tests_Ethnicity_Hispanic 4757
Tests_Ethnicity_NonHispanic 4757
Tests_Ethnicity_Unknown 4757
```

	Year_Month	Date	State	Cases_Total	Cases_white	Cases_Black	Cases_Hispanic
3	2021-03	2021-03-07	AS	NaN	NaN	NaN	NaN
59	2021-03	2021-03-03	AS	NaN	NaN	NaN	NaN
115	2021-02	2021-02-28	AS	NaN	NaN	NaN	NaN
171	2021-02	2021-02-24	AS	NaN	NaN	NaN	NaN
227	2021-02	2021-02-21	AS	NaN	NaN	NaN	NaN
283	2021-02	2021-02-17	AS	NaN	NaN	NaN	NaN
339	2021-02	2021-02-14	AS	NaN	NaN	NaN	NaN
395	2021-02	2021-02-10	AS	NaN	NaN	NaN	NaN
451	2021-02	2021-02-07	AS	NaN	NaN	NaN	NaN
507	2021-02	2021-02-03	AS	NaN	NaN	NaN	NaN

Created visualisations using  
matplotlib and seaborn to visualise  
my descriptive analysis

–`.mean` and `.max`



Which race/ethnicity has the highest number of recorded COVID cases in each State? – used both CASE statement

What is the highest ethnicity group in terms of COVID-19 cases for each state? – used LAG

What is maximum number of COVID cases recorded for each race/ethnicity in each state? – `MAX()` and LAG

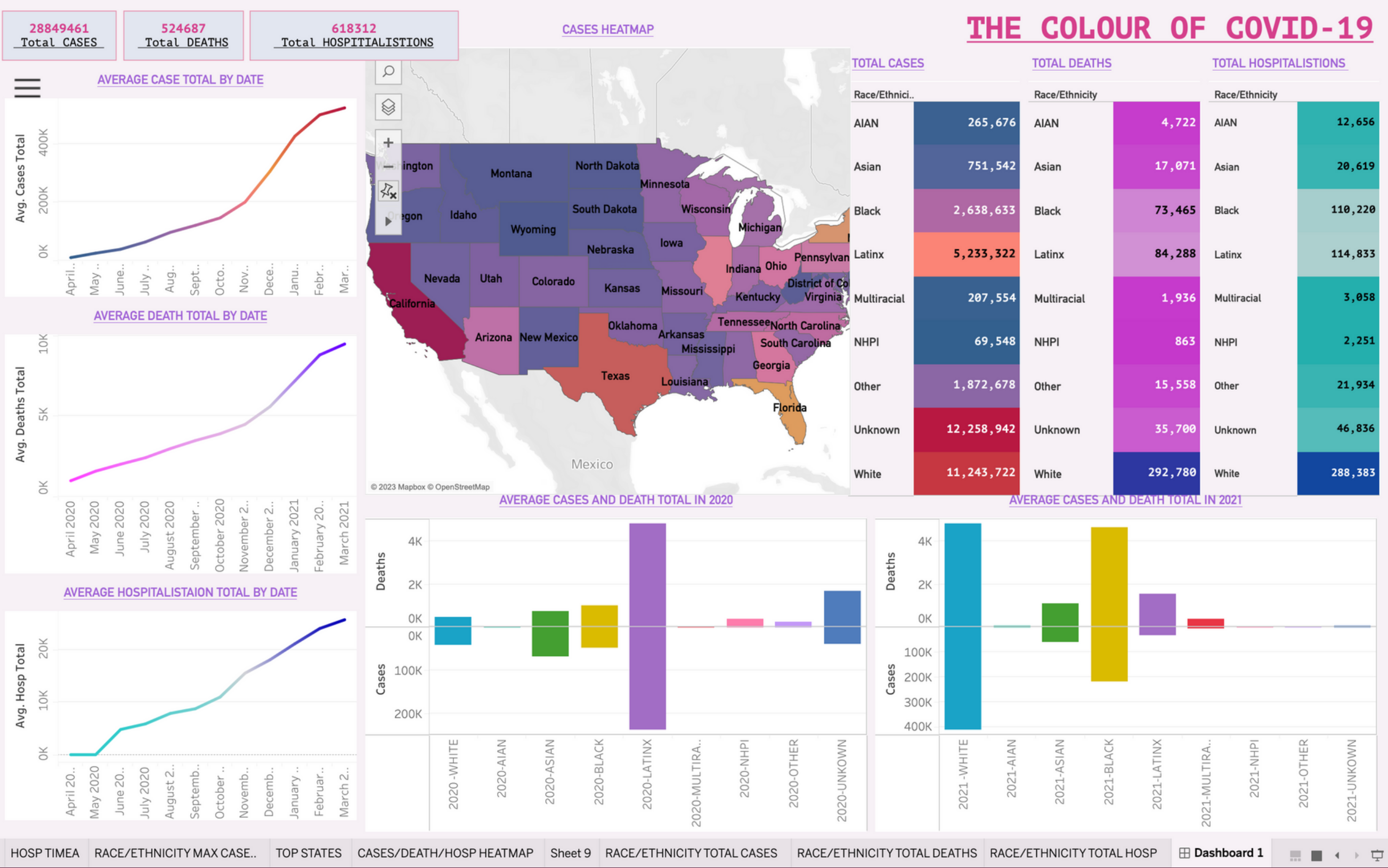
How does the proportion of COVID cases among different races/ethnicities vary across States?

What is the overall TREND of COVID cases among different races/ethnicities OVER TIME?

Which race/ethnicity has the highest number of recorded COVID cases in each State per 100,000 people?



# Dashboard



# Recommendations, Insights and Challenges

## INSIGHTS

The impact of COVID-19 on ethnic minorities in the United States was not proportionate, as these groups experienced higher rates of COVID-19 cases, hospitalisations, and deaths compared to non-Hispanic white populations.

## CHALLENGES

- My data had too much missing data
- The cumulative nature of the data
- Some fields were not properly defined

## RECOMENDATIONS

- Improve data collection
- Increase access to care
- Identify the disparities and bias



# Reflection - Conclusion and Key Learnings

## EDUCATIONALLY:

- Data analysis techniques: I have gained an understanding of different data analysis techniques and have been able to apply them to real-world problems.
- Project management methodologies: I have been able to add onto my knowledge of Agile methodologies in the context of a project manager
- Tools and technologies: I have gained a comfortable foundation with tools such as Excel, SQL, Python, R, and visualisation software, as well as project management software Trello.

## PERSONALLY :

- Time management: I was able to manage my time effectively to complete the coursework and projects on time, as well as allocate extra time to hone my skills.
- Problem-solving skills: I gained experience solving real-world data problems, using a systematic approach to finding and analysing data
- Confidence: Successfully completing this data analytics bootcamp and project has increased my confidence when dealing with data.

## CAREER-WISE:

- Career options: Skills from this bootcamp have broadened my career scope about the various careers available in data analytics and project management.
- Job search skills: I have gained experience in how to prepare for interviews, where to focus my job searching.
- Networking: The bootcamp has provided opportunities to meet professionals in the industry and make connections that can lead to job opportunities or mentorship.

## What is your highlight at Niyo Bootcamps?

The course was true to the description: The course was intensive but that never resulted in sloppy delivery, I value learning the theory but being able to apply it in a practical scenario is the most important. Niyo were able to provide that and maintained support throughout.

## Next steps?

- Build a portfolio of data analytics projects that showcase my skills and abilities and get more experience with data
- Continue learning to improve my skills and gain more technical skills
- Apply for data analyst roles!!!

## What are your expectations now?

I'm interested in using my new skills within the CJS to help inform policy and law enforcement in order to reduce the harm caused to the underrepresented and overly surveilled.

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