

## Christian Campbell

I found this project to be smooth sailing until I reached milestone 4. Converting the json data to a pandas data frame was a huge challenge for me. It showed that I still had some learning to do when it came to dealing with APIs. Milestone 5 was also challenging to a degree as I struggled to merge the three tables into one. I'm quite sure, however, that the more I work on these aspects the better I will get at them.

In regard to the data that I collected, even though I collected data from three different sources, all the data that was collected was published by the FBI. It was clear when I was wrangling the data that a lot of effort by the FBI had gone into publishing clean, solid and complete data. As a result, I struggled to find things to clean.

When it comes to ethical considerations, cleansing data released by the FBI raises significant ethical considerations, as it involves altering or modifying information for various purposes. While the intention behind data cleansing is often to enhance accuracy and usability, the process may inadvertently introduce biases or compromise the integrity of the original data. Ethical concerns arise when cleansing involves subjective decisions, potentially impacting the transparency and accountability of law enforcement agencies.

One ethical implication is the potential manipulation of crime statistics, influencing public perception and policy decisions. Cleaning data to portray a more favorable image could undermine the public's trust in law enforcement and hinder the development of effective crime prevention strategies. Furthermore, data cleansing may inadvertently perpetuate existing biases in policing practices, exacerbating issues of racial or socio-economic disparities.

To address these ethical challenges, it is crucial to establish transparent guidelines and oversight mechanisms for data cleansing processes. Open dialogue between law enforcement agencies, data scientists, and the public is essential to ensure responsible data management practices that uphold ethical standards and maintain public trust.

Code for uploading the clean flat file data frame into sql:

```
import pandas as pd
import sqlite3 as sql
conn = sql.connect('flatfile_crime_data')
final_crime_data.to_sql("flatfile_crime_data", conn, index=False)
conn.close()
```

Code for uploading the clean website data frame into sql:

```
import pandas as pd
import sqlite3 as sql
final_crime_rate.to_sql("website_crime_data", conn, index=False)
conn = sql.connect('website_crime_data')
conn.close()
```

Code for uploading the clean api data frame into sql:

```
import pandas as pd
import sqlite3 as sql
conn = sql.connect('api_crime_data')
fbi_final_data.to_sql("api_crime_data", conn, index=False)
conn.close()
```