Car Accident Analytics

The objective of this project is to analyze car accident data from 2016 to 2023, focusing on the yearly number of accidents and the first impact location on the car when an accident occurs.

Dataset

Number of Entries: 100,000+
Data Collected:
- The date and time when the accident occurred. The initial point of impact on the vehicle. The number of accidents recorded.

Value Ranges:
- Accident Year: 2016 - 2023
- Accident Count: 1 - 8000+

Summary

Yearly Accident Trends: The number of accidents decreased sharply after the pandemic, as fewer people commuted in person. This reduction in traffic also contributed to a positive environmental impact by reducing emissions, thus helping mitigate climate change.

First Impact Location: Analyzing the first impact location on vehicles during accidents can help manufacturers identify which areas need better protection to enhance driver and passenger safety.

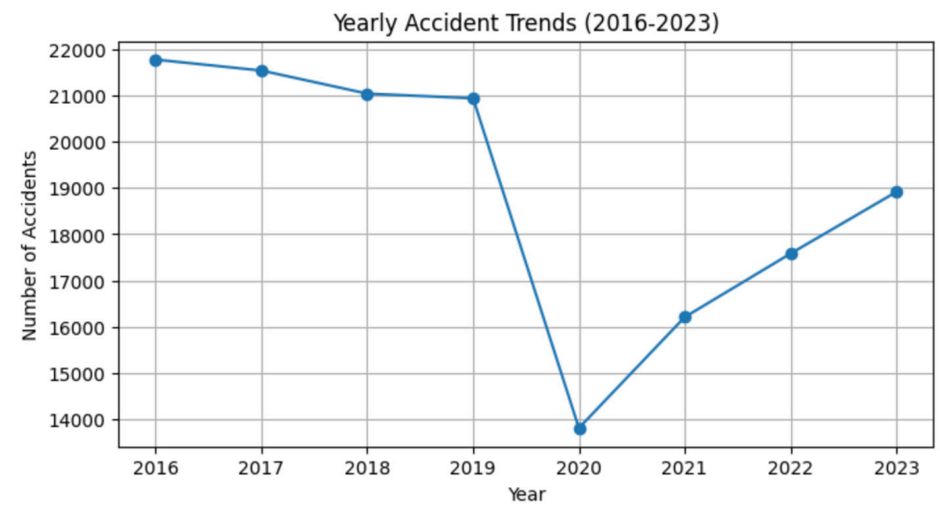
Tools

Matplotlib
plt.plot

pandas
pd.to_datetime()

sns.barplot

Yearly Accident Trends



First Impact Location