

**IST 737 Visual Analytics Dashboards**  
**Syracuse University**  
**Final Project**  
**Los Angeles Crime Investigation Report**

**Group Members:**

**Akshitha Reddy Kalvakuntla**

**Jaya Varshini Prabhakar**

**Muskaan Hazari**

## Los Angeles Crime : A Data Investigation

Los Angeles, a city of over four million, where hollywood glamour meets gritty tales in a complex urban landscape. Crime rates have seen recent declines, but diverse neighborhoods still navigate fluctuating trends, reflecting the dynamic pulse of a population amidst the pursuit of justice. This story will investigate and explore how bad LA's crime rate is?



Crime Type Analysis



Top 5 Area Crime



Crime Time

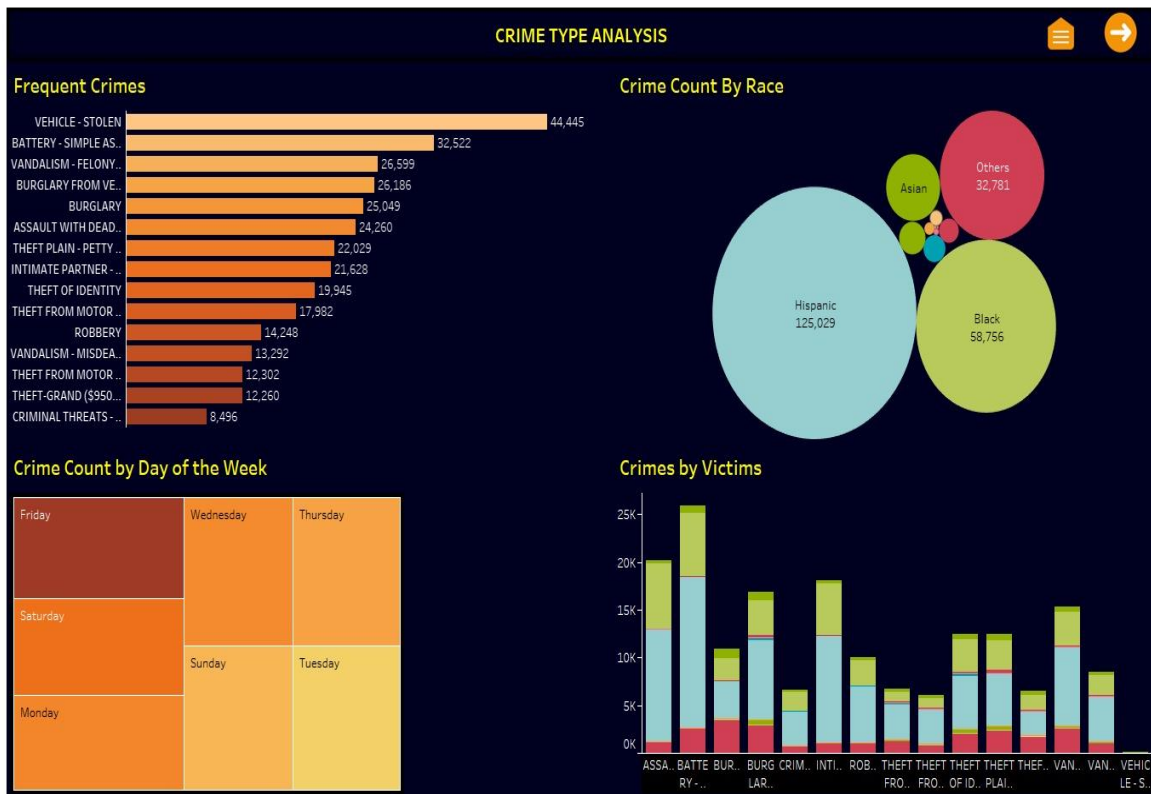


Investigation Report



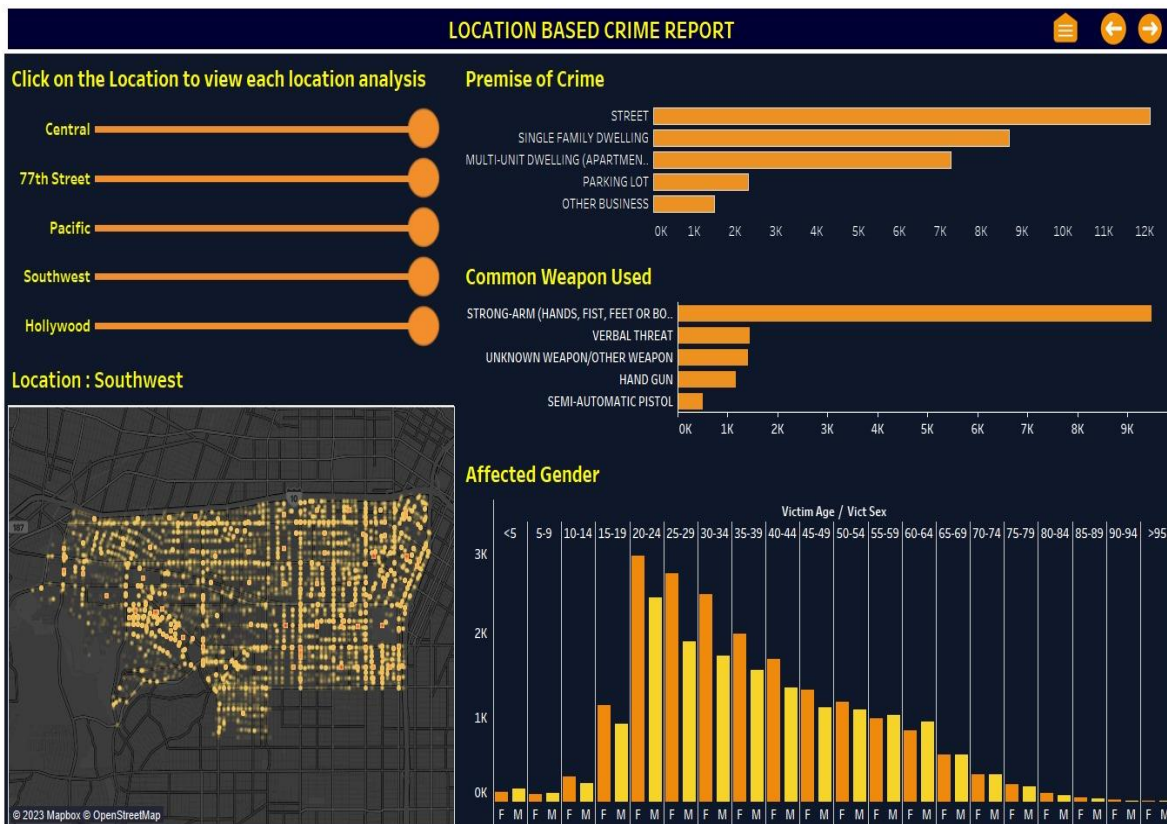
**Dataset used:**

<https://data.lacity.org/Public-Safety/Crime-Data-from-2020-to-Present/2nrs-mtv8>

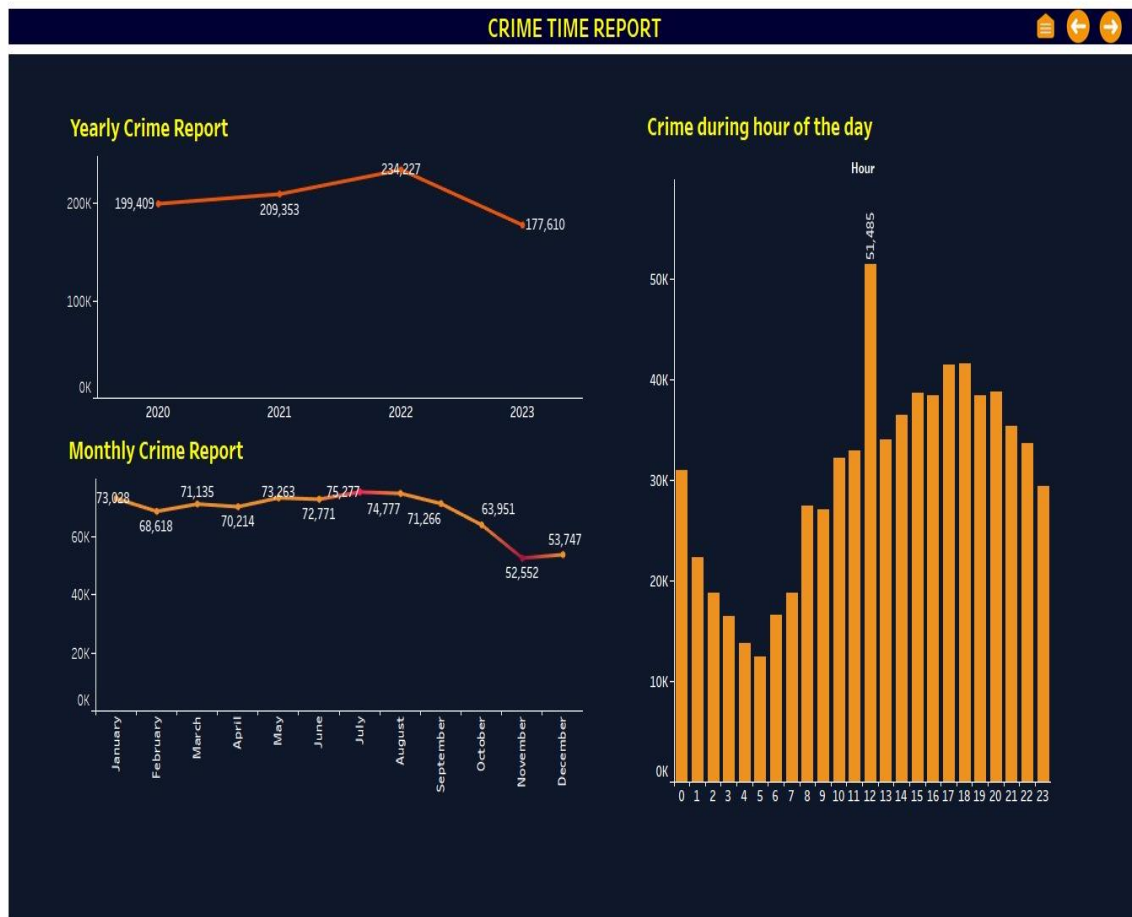


This dashboard presents a crime analysis across various dimensions. On the left, there is a list of frequent crimes, with "Vehicle - Stolen" being the most common, occurring 44,445 times. This section also includes crimes like battery, vandalism, burglary, and theft with their respective counts. Below, there's a "Crime Count by Day of the Week" heatmap, indicating that crime is most frequent on Fridays and least on Mondays.

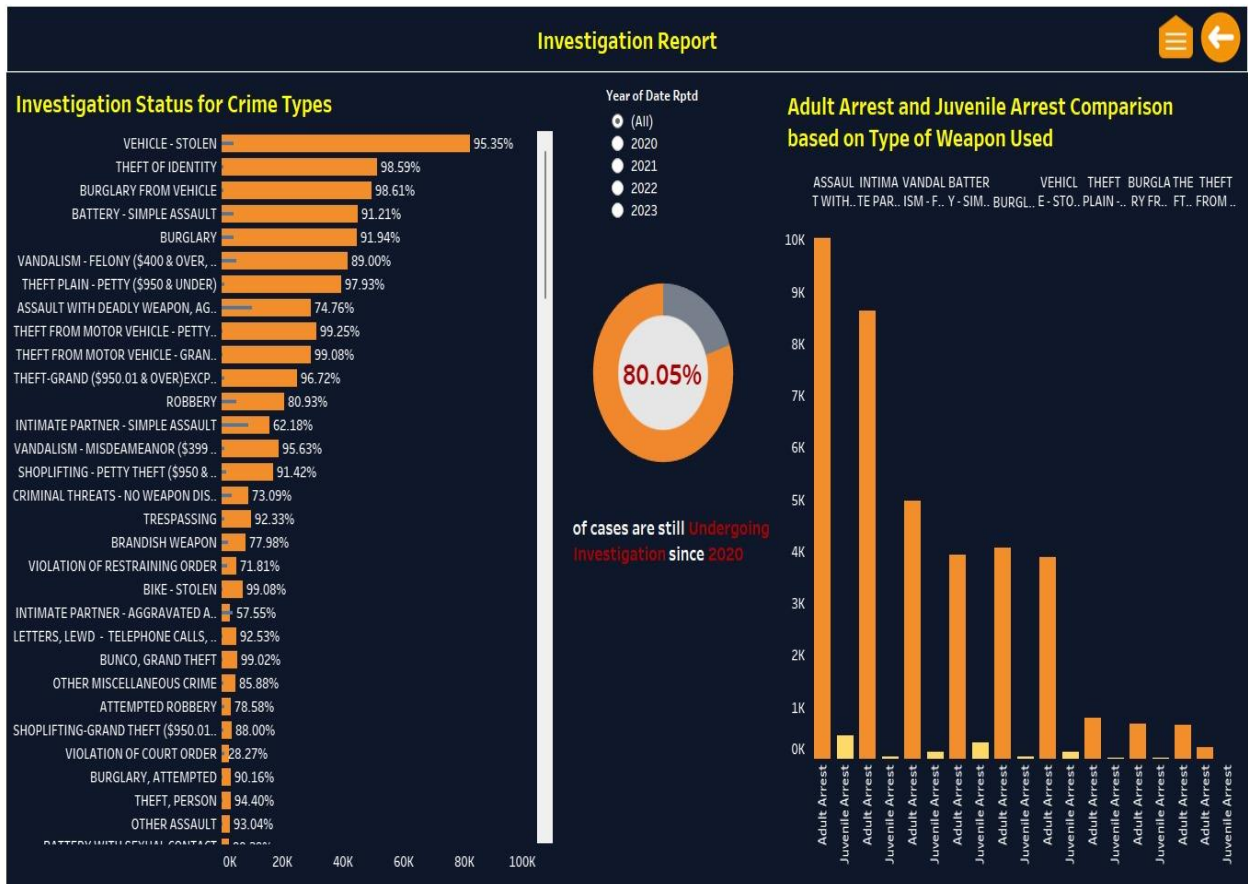
On the right, a "Crime Count By Race" bubble chart shows racial distribution of crime counts, with Hispanic and Black communities having higher counts compared to Asian and other races. Below, the "Crimes by Victims" bar graph displays the distribution of different crime types such as assault, battery, burglary, and robbery, showing the counts of victims by crime type with a color-coded key. This visual representation allows for quick insights into patterns and distributions of crime data.



This dashboard provides a location-based crime report with interactive elements for detailed analysis. Users can click on different locations listed on the left to view specific data. The report includes a bar chart showing the premises of crimes with "Street" being the most common location, followed by single-family dwellings, and others. The "Common Weapon Used" chart indicates that "Strong-arm" (hands, fists, feet, etc.) is the most common, with handguns and semi-automatic pistols also noted. Below, a heatmap illustrates crime distribution across the Southwest location, with numerous incidents highlighted. Lastly, the "Affected Gender" chart breaks down victimization by age and sex, showing a higher incidence in younger male individuals, with a peak in the 20-24 age range for both males and females.



The dashboard displays a "Crime Time Report" with both yearly and monthly crime data, as well as crime frequency by hour of the day. The "Yearly Crime Report" line graph shows an increase in crime from 199,409 incidents in 2020 to a peak of 234,227 in 2022, followed by a significant decrease to 177,610 in 2023, which is because the complete data of 2023 is not available as of November. The "Monthly Crime Report" line graph beneath reveals seasonal trends with crime peaking in July and generally declining towards the end of the year. The bar graph on the right, "Crime during hour of the day," indicates that crime occurrences peak sharply at midnight and have a general uptrend in the evening hours, tapering off in the early morning hours.



This dashboard provides a comprehensive overview of crime investigation status, ongoing investigation percentages, and arrest comparisons. The left section, "Investigation Status for Crime Types," shows a bar graph with various crimes and their corresponding clearance rates, indicating how many cases have been solved or are progressing, with "Vehicle - Stolen" having the highest clearance rate. The middle section, "Investigation Report," features a donut chart revealing that 80.05% of cases have been under investigation since 2020. The right section, "Adult Arrest and Juvenile Arrest Comparison based on Type of Weapon Used," presents a bar graph contrasting the number of adult and juvenile arrests for different crimes. Adult arrests for assault with a deadly weapon have the highest count, significantly more than juvenile arrests, with other crimes following in a descending order.