

Advanced data visualization

Experiment-4

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Aim: Create Basic charts using PowerBi/Tableau/R/Python/D3.js on dataset Crime or Police/law and order.

Dataset: The dataset "Crime in Los Angeles Data from 2020 to Present" on Kaggle contains detailed information about crime incidents in Los Angeles from 2020 onwards. It is intended for analysis of crime trends and patterns in the city.

Key Columns in the Dataset:

DR_NO: Unique identifier for each crime report.

DATE_REPORTED: Date when the crime was reported.

DATE_OCCURRED: Date when the crime actually occurred.

TIME_OCCURRED: Time when the crime occurred.

AREA_NAME: Name of the area or neighborhood where the crime occurred.

LATITUDE & LONGITUDE: Geographic coordinates of the crime location.

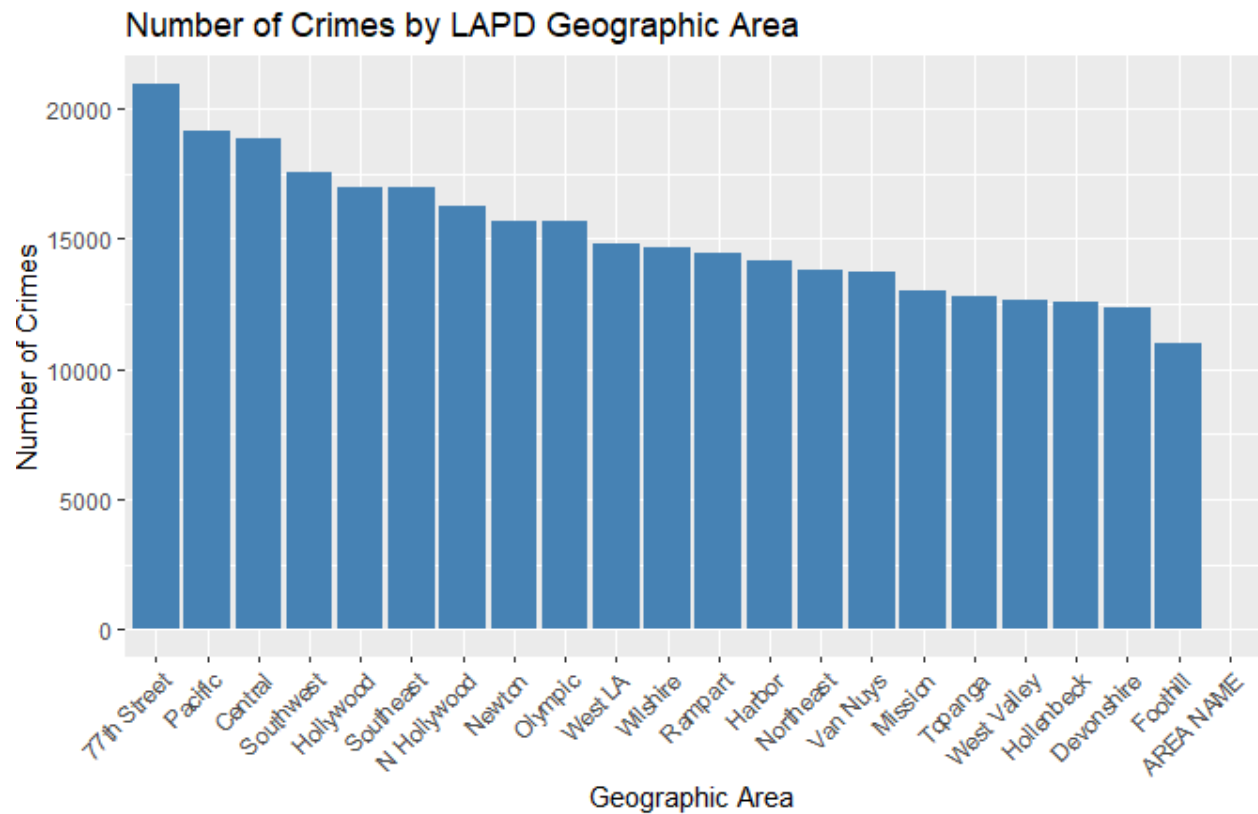
CRIME_CODE_DESCRIPTION: Description of the type of crime.

VICTIM_AGE, VICTIM_SEX, VICTIM_DESCENT: Demographic details of the victim.

STATUS: Status of the crime report (e.g., active, inactive).

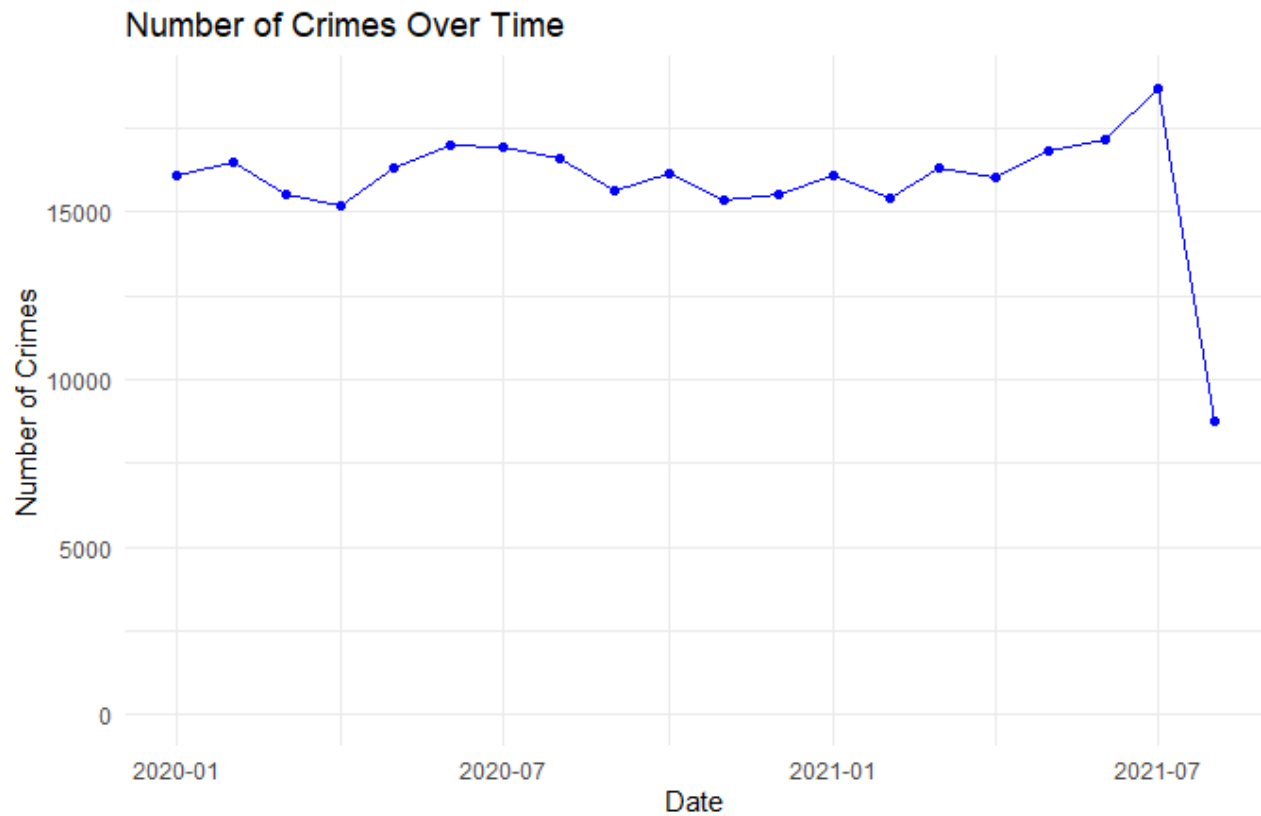
LOCATION: Address or general location where the crime took place.

This dataset is useful for understanding crime distribution, identifying hotspots, and exploring correlations with other factors in Los Angeles.

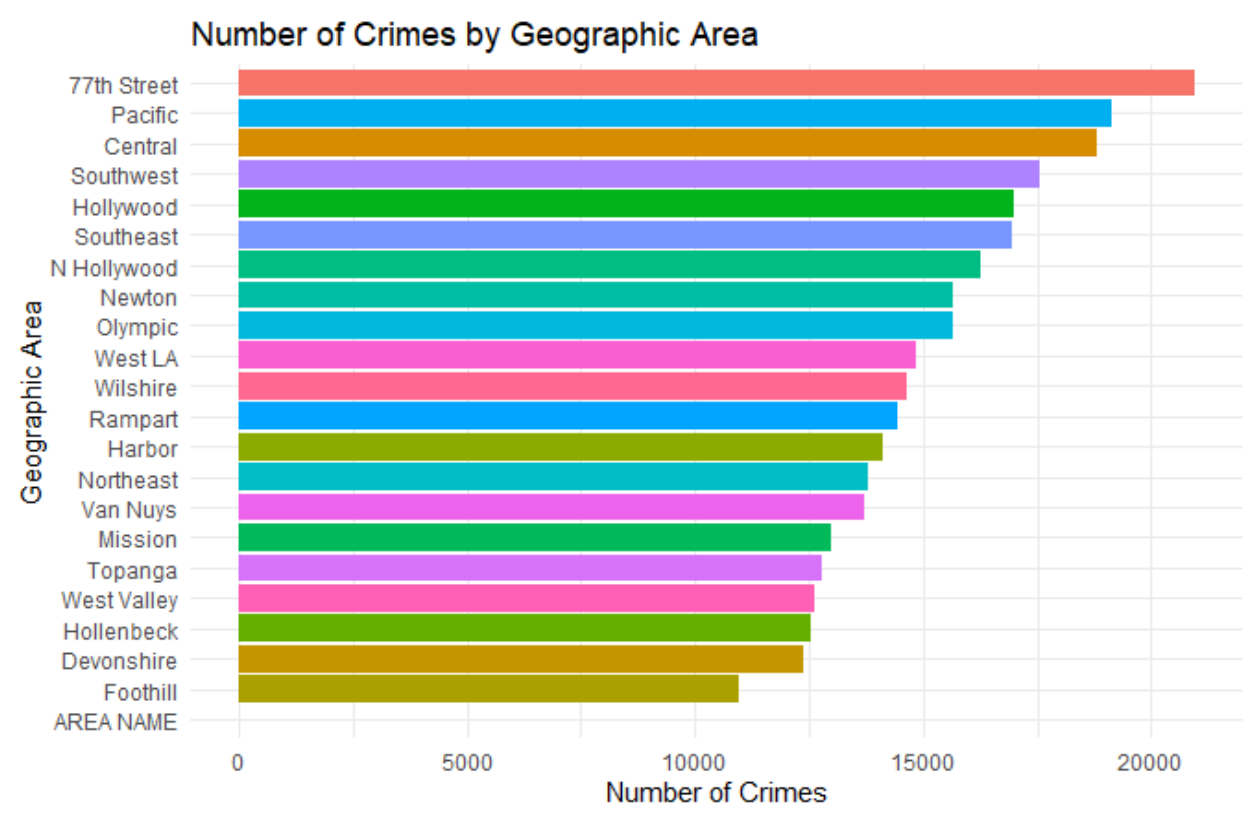


This chart shows the number of crimes per geographic area of LAPD.

1. 77th Street has the highest number of crimes.
2. Foothill has the lowest number of crimes.



1. The number of crimes was highest in July of 2021.
2. Then they dipped down to the lowest number of crimes in the next month which might indicate a serious change in laws or approach of the police department.



This chart shows the number of crimes per geographic area of LAPD.

3. 77th Street has the highest number of crimes.
4. Foothill has the lowest number of crimes.

Conclusion- I learnt how to use R to make basic charts for a given dataset and derive inferences from it.