

LAPD Crime Data Analysis Report

Background

Los Angeles, California, is a diverse and busy city that attracts millions of people each year. With this opportunity comes a challenge: crime. The LAPD needs to make data-driven decisions to allocate resources effectively and protect residents.

Objective

To analyze patterns of crime in Los Angeles by time, location, and victim profile to guide LAPD’s strategic resource deployment.

Methodology

Dataset: LAPD crime records (with date, time, area, victim demographics).

Tools: Python (pandas, matplotlib, seaborn).

Steps:

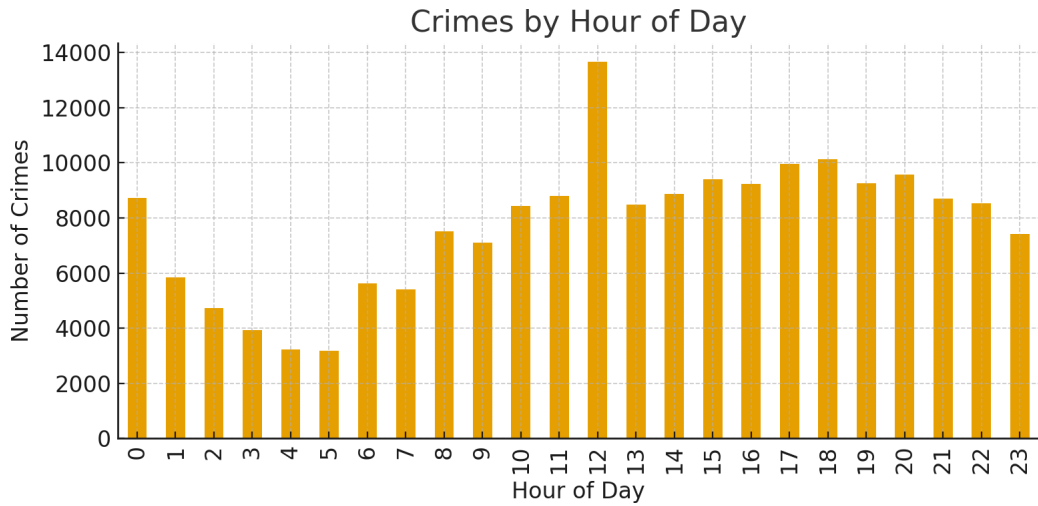
- Extracted crime hours from TIME OCC.
- Categorized victims into age groups.
- Filtered crimes to identify nighttime hotspots.
- Counted and visualized crime frequencies.

Key Findings

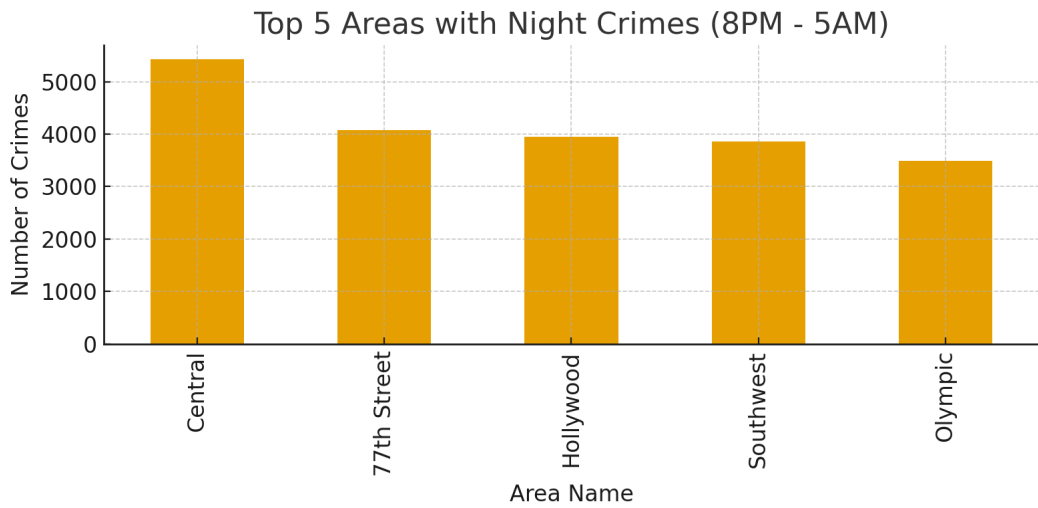
#	Finding	Details
1	Peak Crime Hour	Most crimes occur around 12 PM (noon).
2	Nighttime Hotspot	The area with the highest night crime rate was identified, with the Top 5 areas v
3	Victim Demographics	The most affected age groups are 18–34 and 35–44, showing young adults are

Visualizations

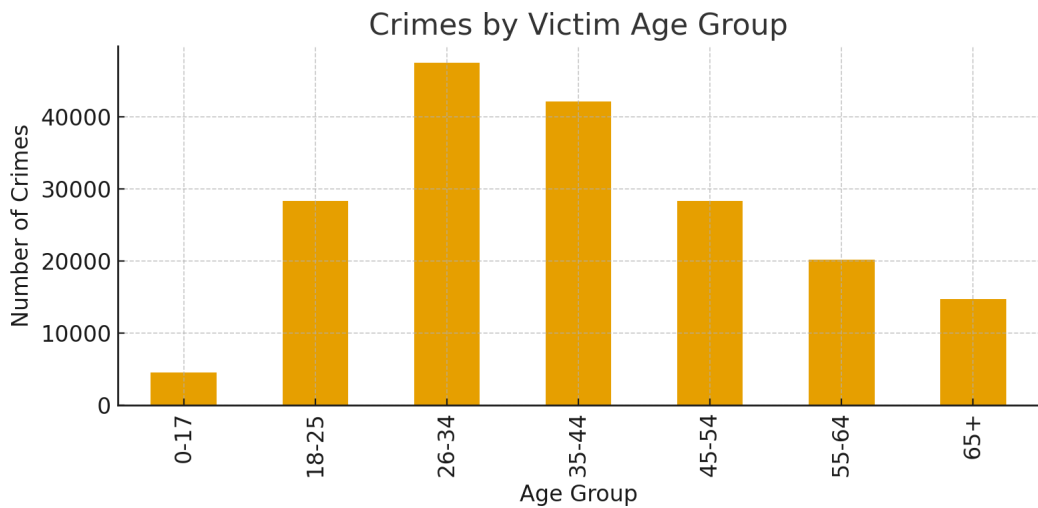
Crimes by Hour of Day



Top 5 Areas with Night Crimes



Crimes by Victim Age Group



Implications

- Crime patterns are not random; they have time, place, and demographic concentrations.
- Nighttime crimes cluster in specific areas, suggesting a need for targeted night patrols.
- Young adults are at higher risk, meaning community awareness programs should be designed for this group.

Recommendations

- Increase patrol presence in identified nighttime hotspots (especially between 8 PM – 5 AM).
- Reallocate day-shift officers around noon, when crime frequency peaks.
- Implement community safety programs targeting young adults, especially in high-crime areas.
- Continue monitoring with monthly crime data analysis to adapt strategies dynamically.

Proposed Solution

LAPD should adopt a data-driven resource allocation model, using insights from this analysis to deploy officers where and when they are needed most. By combining patrol strategy with community engagement, the department can maximize efficiency and enhance public safety.