

Detailed Report for Los Angeles Crime Analysis

Title: Crime Trends and Analysis in Los Angeles

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Brief Description

This project aims to analyze trends in Los Angeles over recent years using comprehensive data visualizations. The analysis covers crime rates, types, geographical distribution, temporal patterns, and comparisons with other major cities.

Project Statement

The primary objective of this project is to understand the patterns and trends in Los Angeles’ crime rates, identifying high-crime areas and times, and comparing these trends with other major cities. This analysis will provide insights to help law enforcement agencies and policymakers in crime prevention and resource allocation.

Tool Used

Microsoft Power BI for Data Cleaning, Analysis and Visualization.

Key Findings

Overall trend in Crime rates: Over the past few years (i.e. from 2020 – 2023), the crime rates in Los Angeles have shown significant fluctuations. In 2021, there was 5.01% increase from 2020, followed by a significant 12.06% rise in 2022. However, 2023 experienced a drastic decrease of 76.93% in crime rates.

Years	Total Crimes Committed
2020	102 million
2021	116 million
2022	106 million
2023	27 million
Total	350 million (Approximate)

Prevalent Crime Types

The most prevalence crime types include Vehicle Theft, Battery, Theft of Identity, Burglary and Vandalism. Vehicle Theft constitutes 28.6% of total crimes, followed by Battery at 21%, Theft of Identity and Burglary

at 17.3% and 16.6% respectively, and Vandalism at 17.3%. Over the years, Vehicle Theft and Battery remained significantly high, while other crimes have shown variations in their frequencies.

High Crime Areas

The areas with high crime rates are Central, 77th Street, Pacific, Southwest and Hollywood. Central tops the list with the highest crime rate counts, followed closely by 77th Street. The most common crimes in these areas are Vehicle Theft and Battery and Vandalism.

Crime Rates by Day of the Week

Crime rates vary by day with Friday having the highest count at 107K, followed by Saturday at 102K. The lowest crime rates are observed on Tuesday with 96K incidents.

Seasonal Patterns

Crime rates show slight variations by month, with peaks observed in July and August (61K each), and the lowest rates in February (55K). The overall crime rates per capita in Los Angeles have shown significant changes, particularly in 2023 with a noticeable reduction.

Recommendations

- Focused Policing in High-Crime Areas.
- Community Engagement Programs.
- Crime Prevention through Environmental Design.
- Public Awareness and Education.
- Regular Review and Assessment.