

Data-Driven Deployment

Optimizing Security Guard Placement in Los Angeles

Scenario: You are a data analyst working for a security guard company that has been offered a contract to provide security services for parking lots across Los Angeles. Your task is to analyze crime data in LA and create insightful visualizations to help the company strategically position its security guards in the most high-risk areas and allocate resources effectively. This would involve mapping crime hotspots, identifying patterns in criminal activities based on location and time, and developing interactive dashboards that display the findings. These visualizations could showcase areas with higher reported incidents of theft, vandalism, and violent crimes, overlaid with the locations of major parking facilities. Additionally, the visualizations could highlight peak hours and days when certain parking lots experience a surge in incidents, allowing the company to dynamically schedule more guards during those critical times.



Data Source: <https://catalog.data.gov/dataset/crime-data-from-2020-to-present>



Target Audience: Company executives, Sales and business development teams, Security operations teams.



Big Idea Sentence: Through interactive visualizations mapping crime hotspots and temporal patterns across Los Angeles parking lots, a data-driven approach will be done to help the security company to strategically deploy guards, maximize resource efficiency, and provide tailored safety solutions that address location-specific risks.



Conclusion: The comprehensive analysis of crime patterns across Los Angeles parking lots has unveiled critical insights that can significantly enhance the effectiveness of security operations and resource allocation. By leveraging robust data visualizations that map crime hotspots, identify high-risk areas, and uncover temporal patterns, our research has demonstrated the urgent need for a data-driven approach to security guard placement and scheduling.

Visualizations

- A highlight table with information of no of crimes by type of crime at parking lots
- A highlight table showcasing the trends in no of crimes through weekdays over time
- A Heat map of the crimes spread over Los Angeles
- An interactive Line graph that visualizes weapon specific crimes across weekdays
- A Pie chart of the investigation status of all the crimes recorded
- A bubble chart showcasing the no of crimes by weapons used
- A Scatter plot visualizing the no of crimes by area within Los Angeles