

# Analysis of Crimes Committed in LA 2020-2023

## Introduction

This dataset reflects incidents of Crime in the City of Los Angeles dating back to 2020. This data is transcribed from original crime reports that are typed on paper, with columns detailing 'Report\_Date' capturing incident dates, 'Age\_group', providing demographic insights, 'Crime\_Type' showcasing various crime categories like theft, assault, vandalism, and 'Citywide\_count' quantifying the occurrences of each crime, this dataset serves as a pivotal resource for understanding crime patterns.

## Objective

Understanding the temporal patterns of crime occurrence can be crucial for law enforcement agencies and policymakers to allocate resources effectively and implement targeted interventions to prevent and address criminal activity. The insights gained from these analyses can inform strategies aimed at enhancing public safety and reducing crime rates in communities.

## Analysis and Methodology

Changed the date and time format to make it easy for analysis. The analysis reveals clear temporal patterns in criminal activity. By hour, there's a consistent increase in crime throughout the day, peaking in the late afternoon or evening. By day, fluctuations occur, but the regression line helps visualize overall trends. Loess regression is used to predict the no of crime by hour and cubic regression is used to predict the no of crime by day.

## Result/Findings

we can observe fluctuations in crime counts over time. The regression line helps visualize the general trend, showing whether crime counts are increasing or decreasing over time. Additionally, any notable peaks or dips in the data can be identified, which may correspond to specific events or periods of interest. Overall, the plot provides insight into the temporal dynamics of crime occurrence within the dataset.

This data has been collected from data.gov.

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

