

CrimeStats.LA

Team:

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Project Summary

Using a crime dataset from Los Angeles Open Data that contains details of reported crime incidents from various areas dating back to 2020, we propose a web application that will be the one location for visitors and residents of Los Angeles (LA) to view insights into the crime statistics of different areas of LA that can help them make informed decisions about visiting, buying homes, opening businesses, finding good school districts, and more in LA.

Project Description

This data set was made by the LAPD by transcribing original crime reports typed on paper. As such, there may be some inaccuracies within the data. For example, some location fields contain missing data and are noted as (0°, 0°). Address fields are only provided to the nearest hundred-block radius to maintain privacy.

Our goal is to develop a website where visitors and residents of Los Angeles can see crime statistics of different areas of LA, based on reports documented by the Los Angeles Police Department (LAPD). The website will also be a platform for users to report incidents which the LAPD can review to take further action.

Similar datasets exist to determine crime for statistical purposes such as determining property value and safety. But many of them are temporally limited or not actively maintained. This data set is actively maintained by the LAPD (bi-monthly refresh) and contains data from 2020 to the present - March 8, 2024, being the last update as of writing this description. The data set contains 28 columns and 911,000 records of crime incidents. For each incident, data on when and where the incident occurred, the type of crime that was committed, details about the victim, weapons used, and the status of the investigation are stored, to name a few data points. Our goal is to process the data to effectively visualize the information to help users make informed decisions about exploring or settling down in LA. Additionally, like a neighborhood watch program, members of the community can report crime events that they encounter for the LAPD to review and act.

Sharing

We will be collaborating using Microsoft's suite of tools along with Canvas for documentation and discussion. During development, we will use the following GitHub repository for version control and code-sharing: <https://github.com/ashvenk/crimestats-la>

Group Contribution

Name	Tasks	Average Time Spent (per milestone)
Allen Ho Ashwin Venkatakrishnan Blake Farmer	Brainstorming/dataset exploration	2 hours each

Citations

https://data.lacity.org/Public-Safety/Crime-Data-from-2020-to-Present/2nrs-mtv8/about_data

https://data.lacity.org/Public-Safety/Crime-Data-from-2010-to-2019/63jg-8b9z/about_data

Other datasets reviewed:

<https://www.kaggle.com/datasets/mikejohnsonjr/united-states-crime-rates-by-county/data>

<https://www.kaggle.com/datasets/mathchi/violent-crime-rates-by-us-state>

<https://www.kaggle.com/datasets/kabhishm/united-states-crime-rates-by-city-population>

https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-Present/ijzp-q8t2/about_data

https://data.austintexas.gov/Public-Safety/Crime-Reports/fdj4-gpfu/about_data