GEOG594 Big Data Science and Analytics Platforms | Prof. Ming Tsou

Crimes in Los Angeles

Title: Crimes in Los Angeles
Team members: Shraddha Masuti, Rashmi Sawant, Deepika Siriah
Project Coordinator: Deepika Siriah

Description:
Los Angeles is the second most populated city in the United States, it has a violent crime rate of 634.8 per 100,000 inhabitants. We can see the severity of the problem from the article in Los Angeles times which states that the crime rate in Los Angeles rose by 5% where on an overall state-level it fell by the same rate. The purpose of this project is to determine the trends in crime that would help the Police department to minimize the crimes in Los Angeles**.** From the analysis, we would be able to determine the measures to minimize the crimes in the city.

The data describes the crimes in Los Angeles like time and place of the crime, when the crime was reported, crime description, weapons used for the crime, status of the crime resolution etc. This dataset is refreshed every week. So, we have a trending dataset since 2010 to till date.

Data Source: data.lacity.org
Link: https://data.lacity.org/A-Safe-City/Crime-Data-from-2010-to-Present/y8tr-7khq/data

Analysis:
1. Understand the trend in crimes occurred every year in Los Angeles (from 2010 to 2018).
2. What is the time duration when the maximum crimes have occurred?
3. Which regions in LA has the maximum crime incident ?
4. What is the most common premise of crime. (eg . Parking lot, store)?
5. What is the most common type of crime?
6. Which is the most frequent weapons used in the crime?

Tools: We would use Excel and R for data cleaning, preprocessing, and exploration whereas Tableau for data analysis & visualization.

Weekly Schedule:

Date	Task	Group Members
10/8 to 10/12	Group Proposal Preparation	Deepika, Rashmi, Shraddha
10/15 to 10/19	Literature and Methodology Review	Deepika, Rashmi, Shraddha
10/22 to 10/26	Data preprocessing & cleaning	Deepika, Rashmi, Shraddha
10/29 to 11/2	Data Exploration & Analysis	Deepika, Rashmi, Shraddha
11/4 to 11/9	Data Visualization	Deepika, Rashmi, Shraddha
11/12 to 11/16	Creating web page design	Deepika, Rashmi, Shraddha
11/19 to 11/23	Finalizing & integration visualization into	Deepika, Rashmi, Shraddha

	the website	
11/26 to 11/30	Finalizing the website	Deepika, Rashmi, Shraddha
12/3 to 12/7	Creating the group video	Deepika, Rashmi, Shraddha
12/10 to 12/14	Project presentation	Deepika, Rashmi, Shraddha
12/17 to 12/18	Finalize the report	Deepika, Rashmi, Shraddha