

Abstract

Crime refers to an action that violates law and comes under punishable offense, any of the social, emotional or economic imbalance can lead a person to commit crime. Precautions are indeed necessary but that will ensure our safety is not true. Therefore technology and data science is needed to combat this problem. The historic data of criminals and types of crime committed collected by the police department from various geographic locations can be used. Applying analytical tools to find out a trend or pattern in the behavior of crime is called crime analysis.

In this project we analyzed the Chicago Crime dataset (between the years 2001–2017), which is one of the richest open source data available in the world, to get a better understanding about the security status of Chicago city. The result of the project shows that only 28.33 percent of the criminals that were reported, were arrested and the amount of crimes reported in recent years had considerably decreased in comparison to a number of crimes between the years 2008 to 2010, which shows us that the security of Chicago city has increased during these years. The result shows that, the most common crimes in Chicago city are theft, battery, criminal damage, and narcotics, which are made up of 65.7 percent of the crimes in Chicago and happens in an apartment, residence, sidewalks, and streets which are very common places.