

Exploration of Gun violence in the US

Team No 15

Motivation:

Gun violence in US causes many deaths. We would like to analyze the Gun violence dataset to explore location related trends and other characteristics such as firearm regulations and how they are being amended. We would also like to use the firearms provision, mental health, unemployment rate, mass shooting datasets to see if there is any correlation between them to the gun violence incidents across datasets.

Dataset:

Dataset	Content
Gun Violence Data	The dataset is a csv file of over 260,000 incidents across US from 2013-18 providing information such as number of people killed, hurt, type of gun used etc
State Firearms	The dataset is a CSV file providing information regarding firearms provisions in US from 1991-2017.
Mental health survey	The dataset has information about the mental illness history, employment for different states
Unemployment	The dataset has unemployment rate in US from 1990-2016.
Mass shootings	This contains a non-exhaustive list of US Mass Shootings from 1966 to 2016

Problem statement:

Our aim is to try and find correlation between gun violence dataset and other candidate datasets as mentioned above. We would like to explore and identify the most violent cities/states and confirm our hypothesis about the reasons from other datasets. Additionally, we plan to scrape data from the sources of reports to characterize the incidents.

Project Steps:

Checkpoints	Estimated time	Contributors
Data Scraping	1 week	Tongji, Saideep
Data Cleaning	1 week	Arun
EDA	1 week	Saideep, Shiang
Correlation Analysis	1 week	Tongji, Arun
Visualizations	1 week	Shiang

