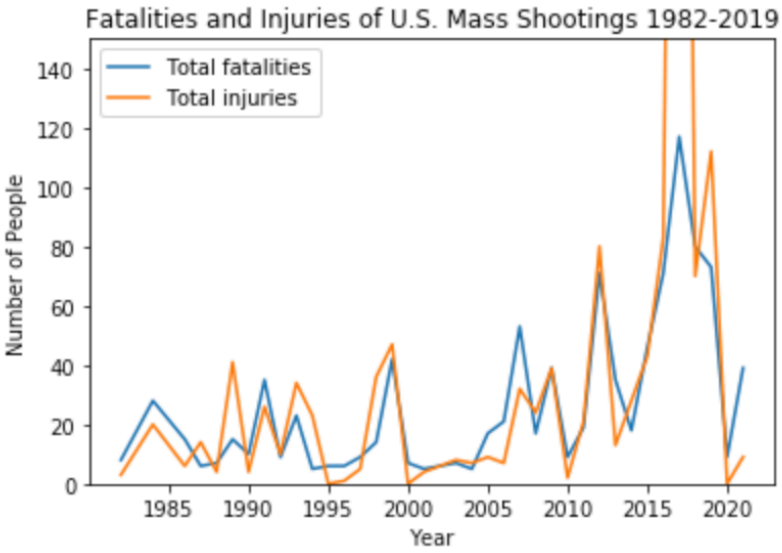
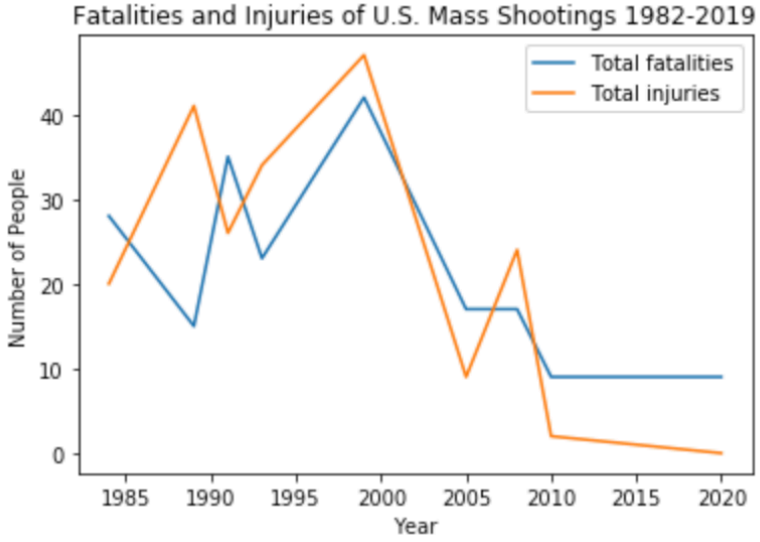
White Hat and Black Hat Visualization of US Mass Shootings in 1982-2019

White hat:



Black hat:



The two line charts use the US Mass Shootings 1982-2019 dataset. Three attributes is used here: year, total fatalities and total injuries. The mass shootings are reported in single cases, but group by year here for a comprehensive review. The white hat chart shows the fatalities and injuries in each year. Though having fluctuations, the overall trend is upward, indicating an increasing number of deaths and injuries throughout the years. The black hat chart only shows fatalities and injuries in selected year. The overall trend is downward, indicating decreasing total of fatalities and injuries during mass shootings throughout the years.

I use plt implementation in python to draw line graphs for the two visualisations. I choose line chart because it can show the trend through time. For the white hat visualisation, I choose the line chart because it's easy and straightforward to show the statistics. With each year's statistics plotted, people can see all the information they want without confusion. For the black hat visualisation, I also choose the line chart. However, I deliberately select the statistics of certain years to make a downward trend of fatalities and injuries. For example, I erase all data between 2010 to 2020 since they will high. So people are led to learn

that injuries and fatalities from mass shootings decrease in recent years and the safety in US is getting better. However, that's wrong because of missing information from the visualization.

ISCLAIMER: This visualization was created as part of a visualization ethics assignment. Please use the information presented here with caution, as it may have been intentionally designed to be misleading.