

## Weekly Project SCRUM Report

Date: March 3<sup>rd</sup> 2023

Project Name: Gun Violence– Spring 2023

Team Members: Hemant Kumar Singh, Shaunak Joshi, Marcel Aubry, Angela Castronuovo

### Tasks Completed This Week:

1. Established recurring meetings with team members.
2. Attended bi-weekly meeting with the client on March 3<sup>rd</sup>, 2023.
3. Team members completed their respective tasks
  - a. Shaunak - Developed and led team 1 strategy for deliverable 1 including data wrangling and cleaning and setting up a workflow for the visual storyboard canvas which can be used to efficiently analyze the data provided visually and answer questions based on it.
    - i. Started analyzing datasets and focused on the Shapefile dataset and setting up the initial canvas on which further data can be projected.
    - ii. Analyzed shape file dataset using the CSV files to plot and understand the demographic distribution in Boston city neighborhoods.
    - iii. Used Shape file to mark boundaries and overlay demographic data on it
    - iv. Also integrated shooting and shots fired data with the overlay and the basic canvas, setting the stage for further additions and creating a visual dataset.
    - v. Made the strategy for the team visual storyboard as well as how to approach questions and finding meaningful answers from the data.
    - vi. Merged everyone's individual taskings into the giant visual storyboard.
    - vii. Answered Q1 in the report and created visuals along with explanation for the same.
  - b. Hemant - Started analyzing datasets and focused on the Police districts data set.
    - i. Visualized and analyzed the Police district with the city council district boundary.
    - ii. Visualized and analyzed Shots fired and shootings data over the Police district with city council district boundary. Created barplot and heatmap for better understanding.
    - iii. Visualized and analyzed Crime incident data over the Police district with city council district boundary. Created heat map for better understanding.
    - iv. Visualized and analyzed Field interrogation and observation data over the Police district with city council district boundary. Created heat map for better understanding.
    - v. Answered question 1 in report and added visuals for better understanding.
  - c. Marcel - Focused on data analysis of the school datasets. In charge of all github related activity.

<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>i. Plotted map of different police districts in the city of Boston as well as the city council districts.</li> <li>ii. Analyzed through visualization the different types of violence and delinquency occurring in schools in the city of Boston through finding addresses by looking up different school codes and inserting them into their respective districts.</li> <li>iii. Aided in completion of deliverable 1 and led GitHub work.</li> </ul> </li> <li>d. Angela - Analyzed police records, shooting incidents and shots fired, aided in completion of deliverable 1.           <ul style="list-style-type: none"> <li>i. Executed a variation of visualization and analysis of the police records to gain a better understanding of gun violence patterns between city council district 4 and the rest of the city.</li> <li>ii. Aided in the analysis of delinquency acts in schools in Boston.</li> <li>iii. Performed analysis on the different graphs the team came up with and wrote conclusions to be made from them.</li> </ul> </li> <li>4. Met as a team to discuss findings and finalize deliverable 1.</li> </ul>
<p>Plans for Next Week:</p> <ul style="list-style-type: none"> <li>1. Collect more data if pertinent</li> <li>2. Talk to bruce and team to understand blindspots if any</li> <li>3. Continue processing data and additional thorough analysis</li> <li>4. Brainstorm ideas for checkpoint A</li> <li>5. Assign next week's task</li> </ul>
<p>Obstacles and Questions:</p> <ul style="list-style-type: none"> <li>- What police districts make up each Boston council district?</li> <li>- Since the data is complex in many different ways, coming up with meaningful ways of analyzing it is a harder task than initially thought. More brainstorming will have to be done.</li> <li>- Take care of the data outliers as they can skew our results.</li> <li>- Getting rid of the "noise" in the data.</li> <li>- Discovering different means to analyze the data using ML / DL models.</li> </ul>
<p>Met with the client recently? When is the next meeting with the client?</p> <ul style="list-style-type: none"> <li>1. - Next meeting with the client is on March 2nd, 2023 at 11AM.</li> </ul>