Opportunity and Significance

The purpose is to keep all the crime statistics from 2011 to 2014 organized in one spot which allows easy access to comparing specific locations, types and dates. Whenever a crime at a certain area or time is in question one wouldn’t have to look through papers with a ton of data to find it. This is to save time and simplify ones task while showing crime statistics with different visual representations that are easy to understand.

Technical Approach, Accomplishments and Results

We are creating a user friendly MATLAB program to sort through and categorize the crime statistics of Detroit and signify crime trends that are happening in our city. This code will be helpful in finding crime based on precinct and time in which it happened and what type of crime was committed. The results will be an appropriate visual representations of whichever variables the user choose from the menus.

Next Steps for Development and Test

This program is currently able to provide the user with data about what type, time, and where crimes were committed only. One step for development could be to add on functions that can use risk analysis for business looking to move into a certain precinct. Based upon the type and frequency of crimes occurring, it could be a good or bad idea to bring your business to this area.

Technical Objectives

The technical objective of organizing the large amount of data on crimes in Detroit was successful. Utilizing MATLAB was an excellent choice for this task. Features such as importing excel data sheets, working with extremely large matrices, storing variables as numbers and strings all allowed us to complete our task.

Related Work and State of Practice

It is helpful to the city of Detroit by showing where the crimes are happening at particular area in a time period. This is helpful to the Detroit police so they can guard those areas more at the known times when crimes are happening the most. This program could be useful to people interested in living in a certain precinct or opening a business and want to check out the safety of the area before.

Commercialization Plan & Partners

Our group is a mixture of Chemical and Mechanical engineers, who were interested about crime data. The credits go to Olivia Cali, Mourad Al-Fadil, Trevor Sarhan and Hena Shah. We could partner with WSU and Detroit police force in an effort to raise awareness about what parts off Detroit are safe. This could be especially useful for Freshman, who need to learn what areas are safe around their campus.

References