Crime Rate Inference with Big Data

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*Abstract*—

(Use a short version of your project proposal here.)

Our project is to predict crime rate using big data. We will use three datasets: the daily crime data in the City of Chicago, Public Health Statistics - Births to mothers aged 15-19 years old in Chicago, and Taxi Trips in the City of Chicago. In other words, we want to study the correlation among these three datasets.

Keywords—analytics, crimes, big data

# Introduction

(Paste your full project proposal here (updated as required).

# Motivation

(Write a paragraph describing why you think this application is important.)

# Related Work

(Each team member has read papers related to this project. Please add here the paper summaries and comparisons each team member wrote. Each paper referenced should be added to the References section. When you refer to reference #1 in your paper, for example, use this notation: [1])

We investigated three papers related to our project.

First, in the paper, Fuzzy Association Rule Mining for Community Crime Pattern Discovery[1], authors study the application of fuzzy association rule mining for community crime pattern discovery. This paper summaries some previous work, available data sources, and possible techniques for crime data mining. Fuzzy association rule mining is introduced as a novel means for knowledge discovery in the crime domain, supported by experimental results on the open-source Communities and Crime data set. This paper also concludes with a discussion on directions for further research and proves Fuzzy association rule mining to be useful for crime-related data sets.

Second, your summary.

Third, your summary.

# Design

(Paste your design diagram here. Write some text to describe the diagram(s).)

# Experiments

(In this section, you can describe: Your experimental setup, problems with: data, performance, tools, platforms, etc. Discuss your experiments, describe what you learned. Discuss limitations of the application. Discuss what you would do to expand it given time - how would you improve it, etc.)

# Conclusion

(One paragraph about the value, results, usefulness of your application.)

##### Acknowledgment

(This section is optional. It can be used to thank the people/companies/organizations who have made data available to you, for example. You can list any HPC people who were particularly helpful, if you used the NYU HPC. List Amazon if you used an Amazon voucher.)

##### References

(Add references for all of the papers/texts that you refer to in your paper. You may have websites to reference, the Spark book, the Hadoop book, etc. A reference is added below as an example.)

1. BUCZAK, A. L., AND GIFFORD, C. M. Fuzzy association rule mining for community crime pattern discovery. In ACM SIGKDD Workshop on Intelligence and Security Informatics (2010), ACM, p. 2.