

# Final Project Title

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## **Abstract**

An abstract briefly summarizing your work.

# 1 Introduction

## 1.1 describing the problem of interest

## 1.2 the data set

### 1.2.1 Data sources

- NYPD 7 Major Felony Incidents: [data.cityofnewyork.us/d/hyij-8hr7](http://data.cityofnewyork.us/d/hyij-8hr7)
- NYPD Motor Vehicle Collisions: [data.cityofnewyork.us/d/h9gi-nx95](http://data.cityofnewyork.us/d/h9gi-nx95)
- National Centers for Environmental Information (weather conditions and temperature data): [ncdc.noaa.gov/cdo-web/search](http://ncdc.noaa.gov/cdo-web/search)
- New York State Holidays: [cs.ny.gov/attendance\\_leave/2015\\_legal\\_holidays.cfm](http://cs.ny.gov/attendance_leave/2015_legal_holidays.cfm)
- Federal Holidays: [opm.gov/policy-data-oversight/snow-dismissal-procedures/federal-holidays/#url=2015](http://opm.gov/policy-data-oversight/snow-dismissal-procedures/federal-holidays/#url=2015)
- School Attendance: [github.com/ajschumacher/NYCattends/tree/master/xml](https://github.com/ajschumacher/NYCattends/tree/master/xml)  
(The NYC Department of Education also publishes this data to the NYC Open Data portal, but historical data is only retained there for the current school year. Instead Ill scrape the daily XML snapshots stored in the linked Github repository.)

1.2.2 Data cleaning

1.2.3 EDA

1.3 the organization of the entire report

2 statistical model and statistical analysis

2.1 model setup: the statistical model employed and assumptions

2.2 statistical analysis / inference

3 model checking (and model improvement if the originally proposed model is not appropriate)

4 Conclusion