

ANALYZING CRASHES IN NEW YORK

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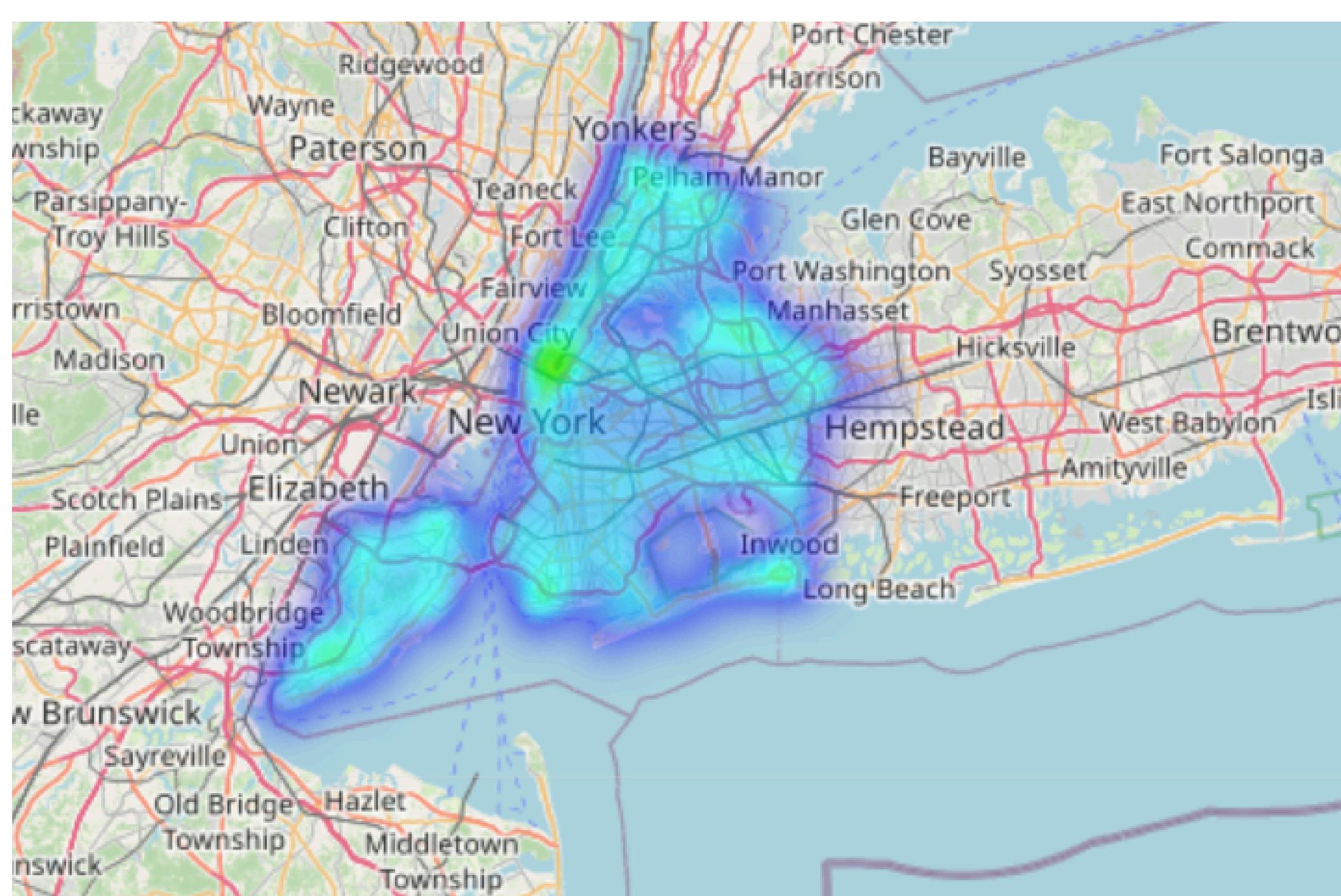
INTRODUCTION

New York is a state known for its high population and bustling metropolis. However, what is not so commonly known are the high amount of traffic crashes that the city has to deal with every single year. These crashes impact many facets of life, from the city's infrastructure and public safety, to the lives of the everyday civilian.

OBJECTIVE

In this project, I will delve into traffic trends and patterns throughout the state to improve road safety, inform policy decisions, and enhance overall quality of life for New Yorkers.

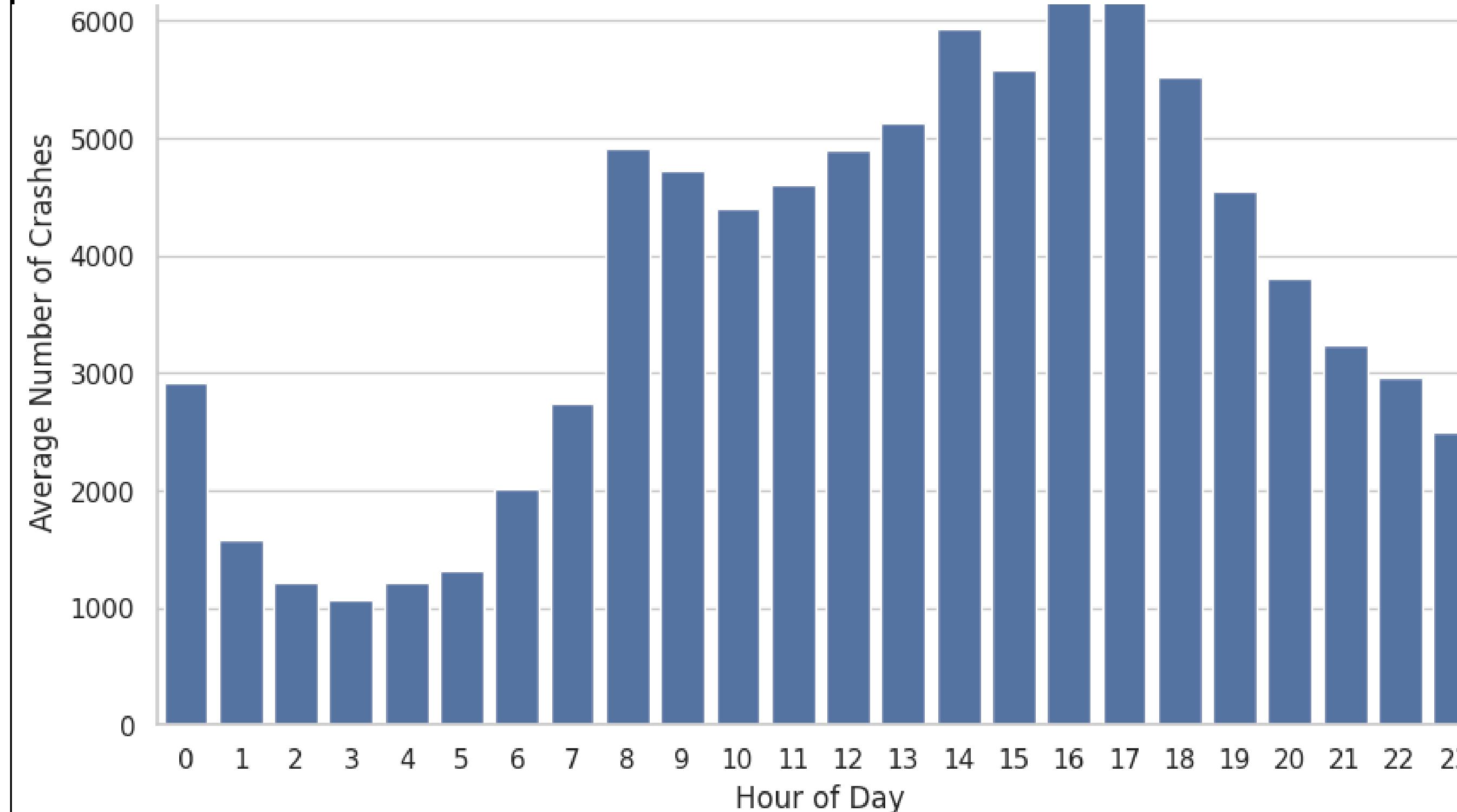
Crash Heat Map



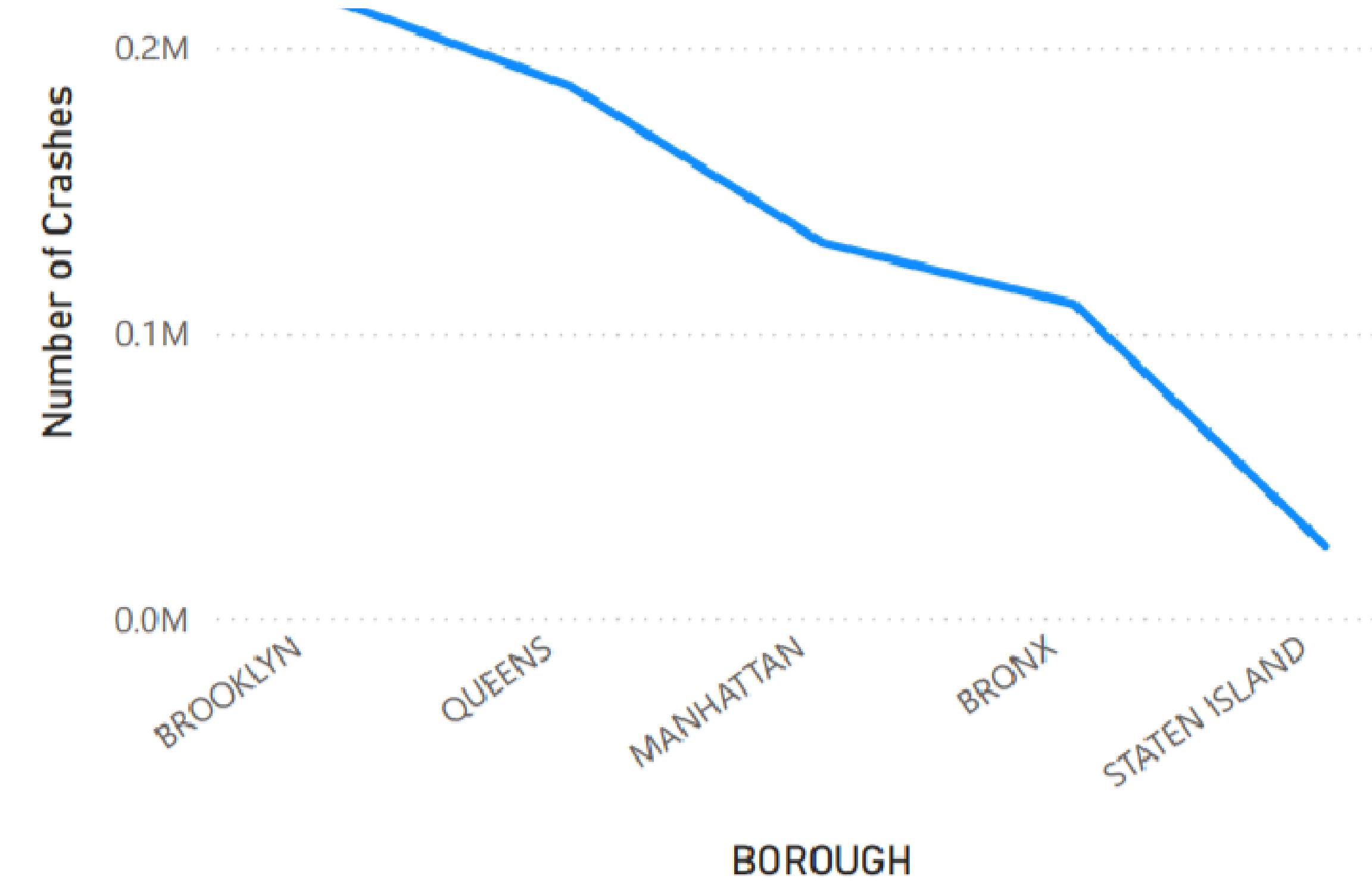
ANALYSIS

Preparation for this project included data cleaning, time series, and some advanced geospatial techniques. I and others cleaned the "NYC Motor vehicle Colissions" dataset, conducted detailed analysis, and took a look at the socioeconomic impacts of our results.

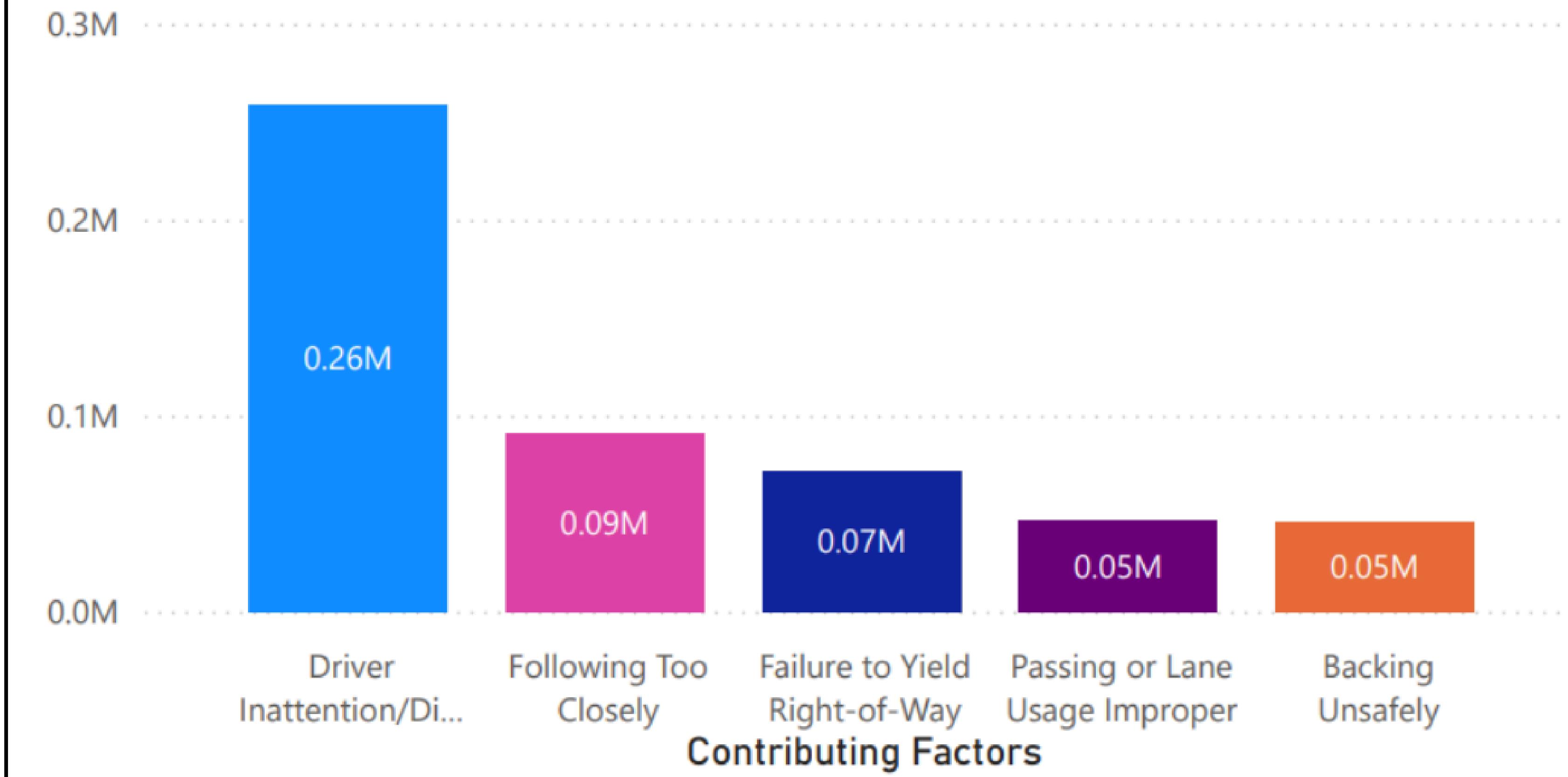
Crashes and the Hour of Day they Occur



Crashes by Borough



Top Contributing Factors to Crashes



FINDINGS AND RECOMMENDATIONS

The data demonstrates that the majority of crashes are driven by human error, concentrated in urban areas where traffic density is highest, and happen most frequently during rush hour when road congestion peaks. Thus, the best way to avoid these crashes is the use of targeted interventions. To address this, the government should and must promote driver education on risk factors like distraction and fatigue, and invest in urban infrastructure improvements.

ACKNOWLEDGEMENTS

I would like to express our deepest gratitude to the U.S. Department of Transportation Federal Highway Administration, NEBDUB, and NSDC for providing valuable resources and support that made this project possible. Through their guidance, I have learned a great deal about data analytics and how its principles can be used to make the world a better place. I look forward to applying this skills in the future.