

# Motor Vehicle Accident Prevalence Across New York City Boroughs

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## Introduction

From 2012 to 2024, there is a consistent of motor vehicle accidents across boroughs in New York. Driver Inattention/Distraction, Failure to Field Right-of-way, and Backing unsafely are the top three factors that lead to accidents in Brooklyn.

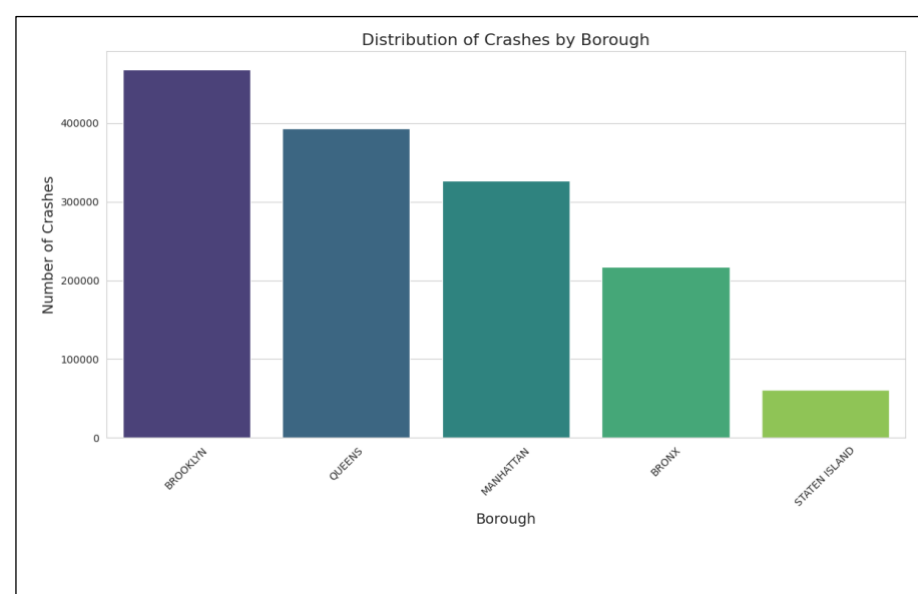


Figure 1. Crashes by boroughs.

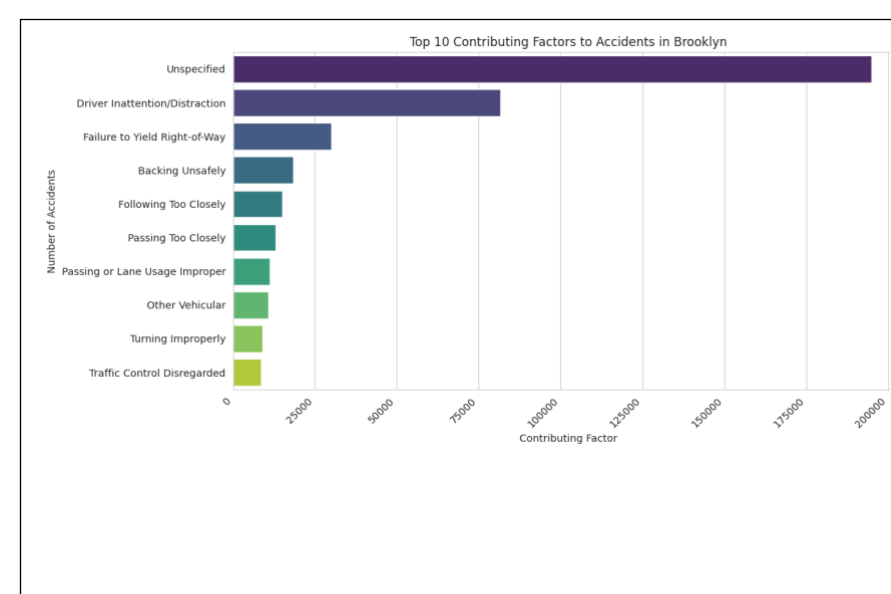


Figure 2. Top 10 factors cause crashes in Brooklyn

## Conclusion

Vehicle crashes occurred the most after office hours between 7PM – 11PM, also happens in early mornings after midnight between 0AM – 6AM.

There are top 3 motor vehicles always involved in crashes which is Sedan, Station Wagon/Sport Utility Vehicle, and Passenger Vehicles. Brooklyn is the borough that has the most motor vehicle crashes out of five boroughs in New York

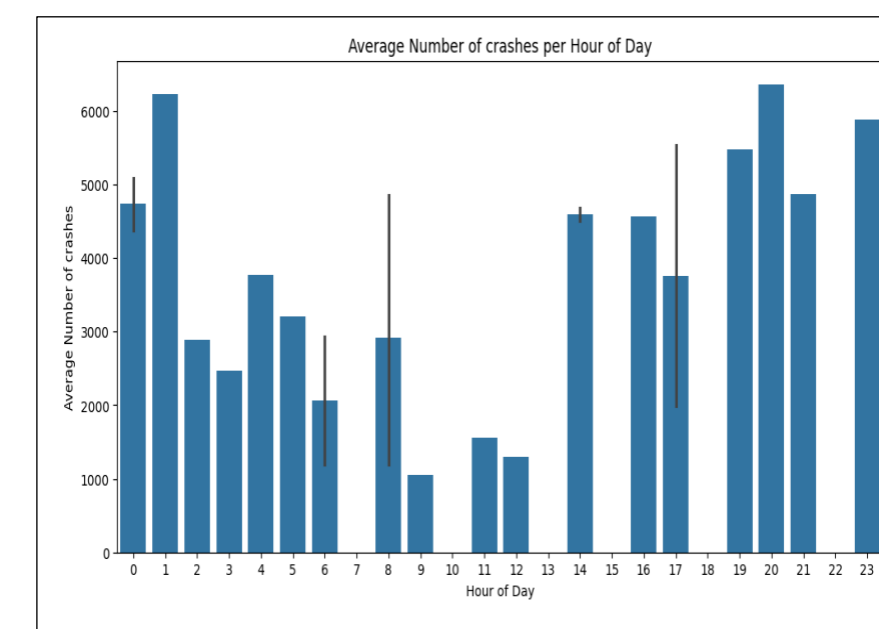


Figure 1. Average crashes per hour of day.

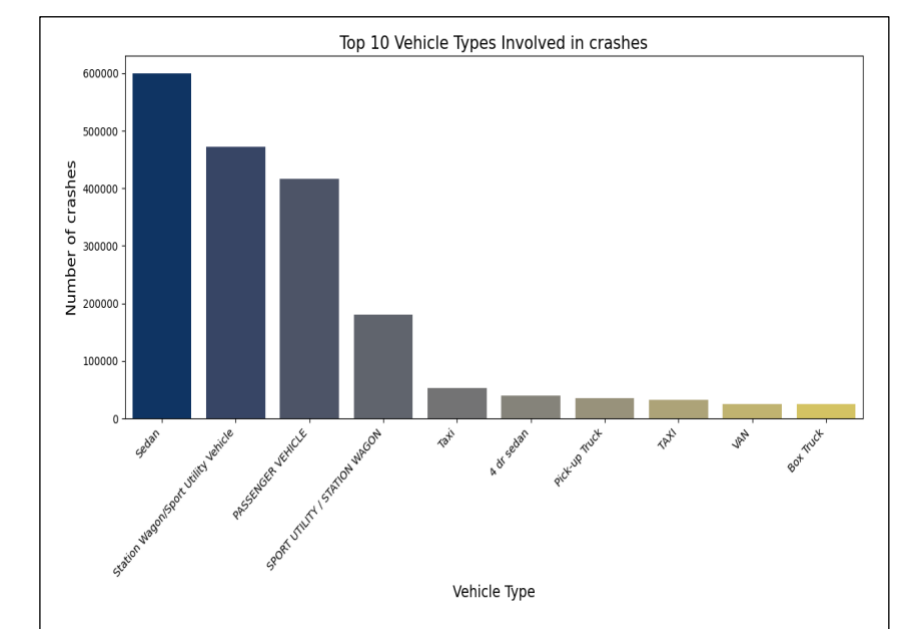


Figure 2. Top 10 vehicle involved in crashes

## Methods

From the dataset provided by New York Police Department (NYPD), I cleaned, processed, organized, and manipulated the data into different types of visualization insights using Python and Google Colab.

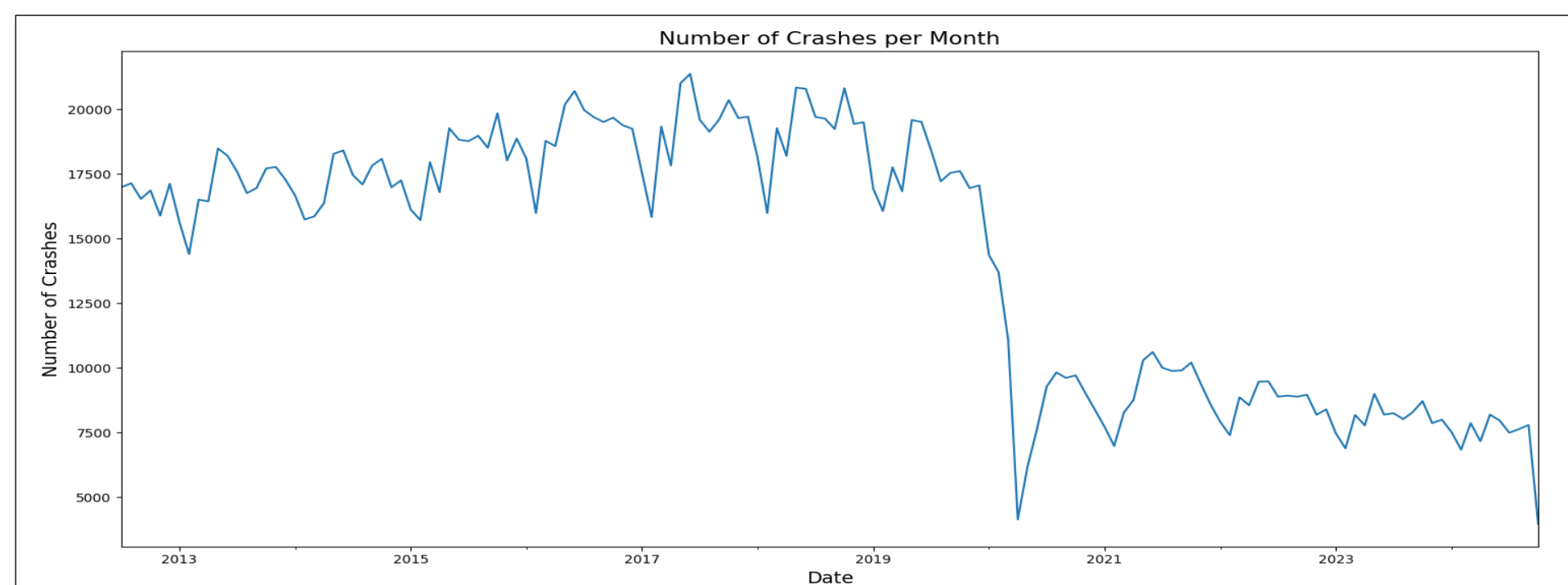


Figure 2. Line chart of number of crashes per month.

## Recommendations

To prevent increasing crashes in New York, everyone should raise their awareness of paying attention on the street while driving. Keep an eye on other vehicles is a great way of preventing crashes and potential accidents.

## Acknowledgments

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## References

NYC OpenData