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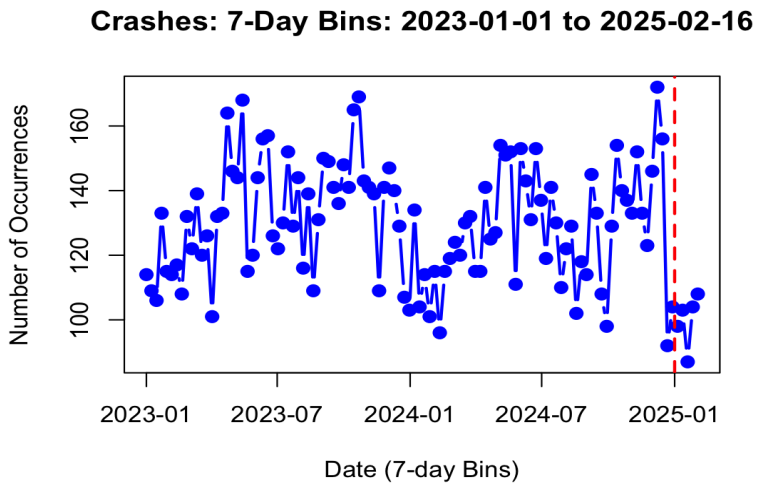
Final Project Proposal

On January 5th 2025, New York City put into effect a new policy of congestion pricing in the lower Manhattan district between 5 am to 9 pm to deter motorists from driving during peak traffic hours. We believe this policy has had potential impacts on the number of collisions in the area, and have collected data from data.gov on motorist collisions in the city of New York. Two methods we will be exploring to identify this change in collisions are; regression discontinuity analysis and difference-in-differences. One potential issue we anticipate encountering is the lack of data between the implementation of this new policy and today, with only 42 days worth of data existing. We have successfully filtered the data to include accidents within the determined congestion pricing zone, allowing us to analyze the possible effects of congestion pricing on motor vehicle crashes. We have data on the type of vehicle in the collision, time of day, date, pedestrian & non-pedestrian injuries, car models involved, cause of accident, and location. The data only includes collisions that caused $1,000 or more in damages. Preliminary analysis has shown that there is a decline in accidents at the cutoff of January 5th, and we are looking to explore this further.



Data: https://catalog.data.gov/dataset/motor-vehicle-collisions-crashes