

# NYPD Motor Vehicle Collisions Project

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# DATA SOURCE

- **Data description**

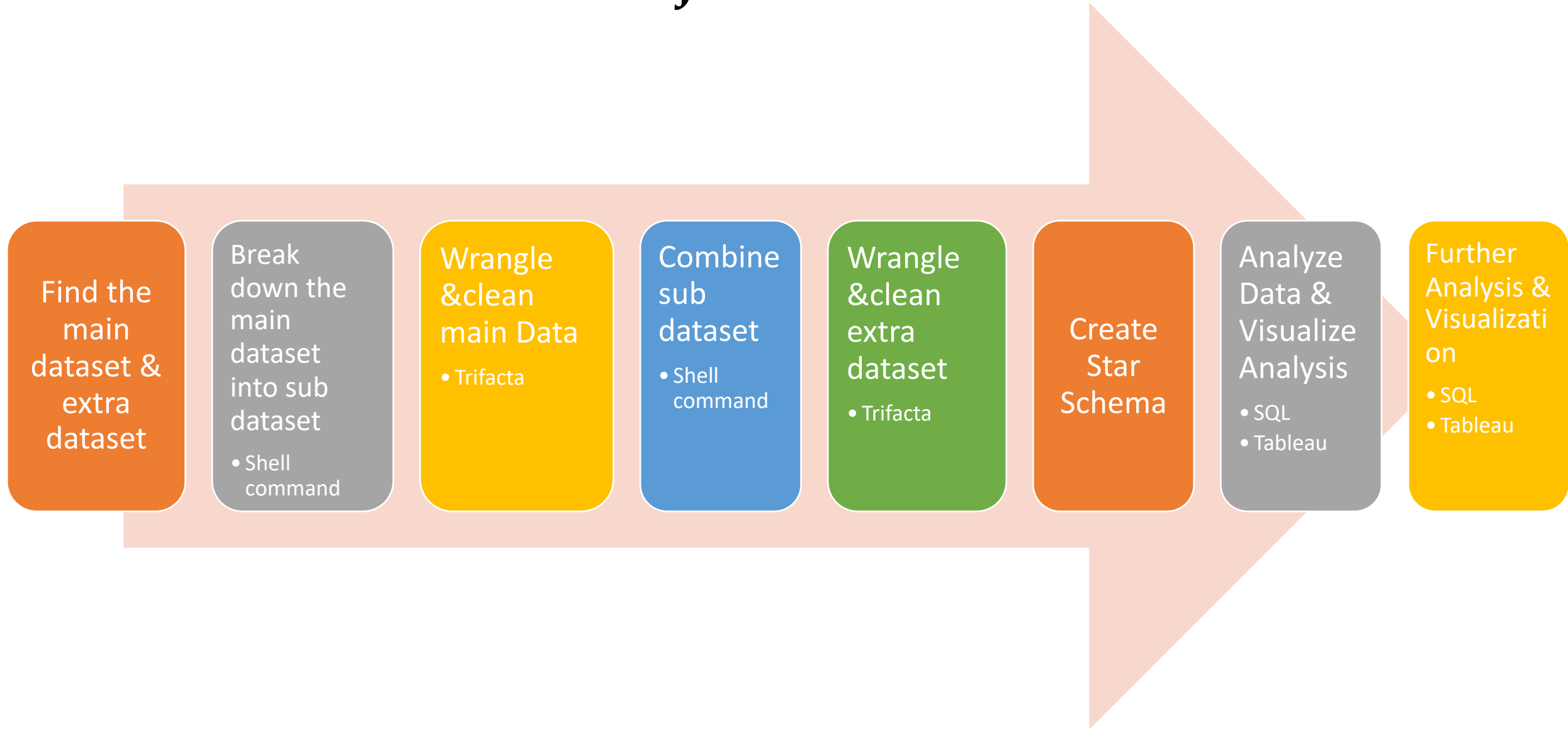
The dataset comes from the NYC open data website. This is a breakdown of every collision in NYC during Year 2012 to 2018. The dataset is originally containing 1.38 million records. Each record represents a collision in NYC by city, borough, precinct and cross street. This data can be used by the public to see how dangerous/safe intersections are in NYC.

- **Variables of interest**

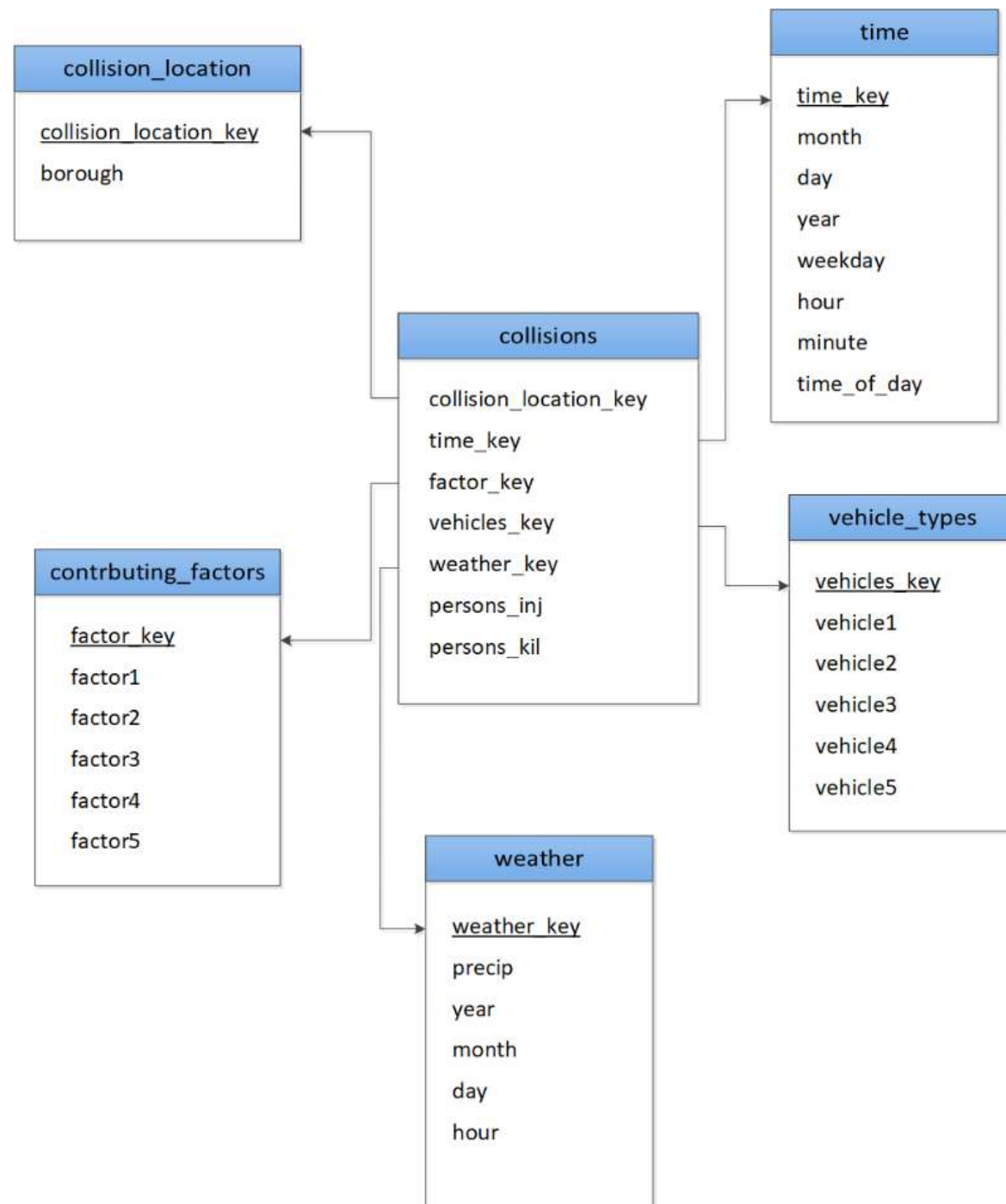
- Date
- Time
- Borough
- Number of persons injured
- Number of persons killed
- Contributing factors
- Vehicle types



# A GLANCE OF THE PROJECT

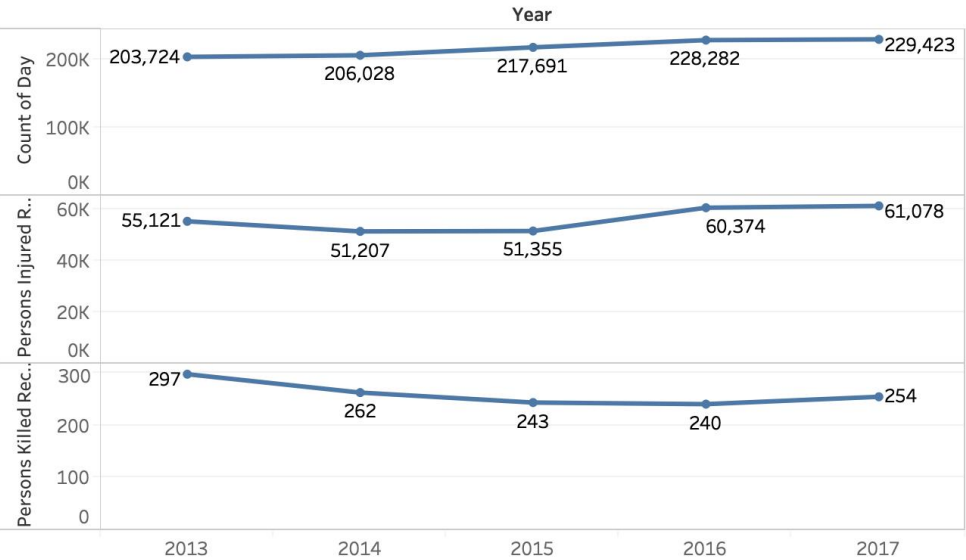


# STAR SCHEMA

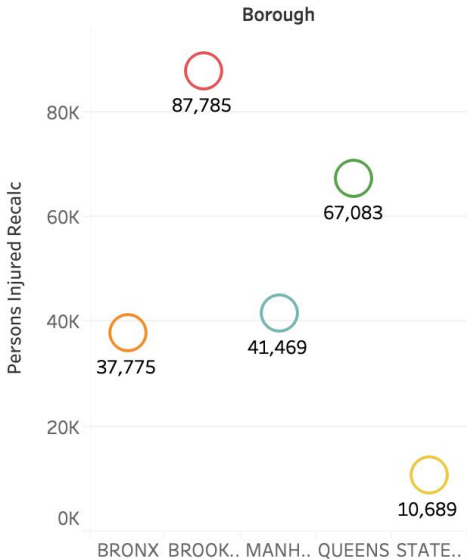


# Overall Collisions Analysis

year case



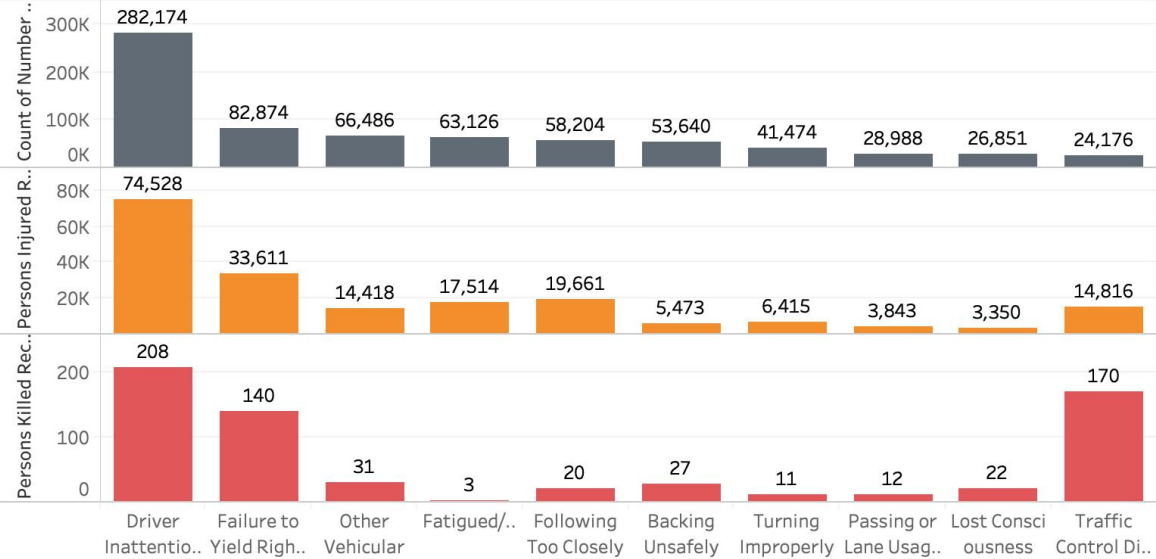
Injured vs. Borough



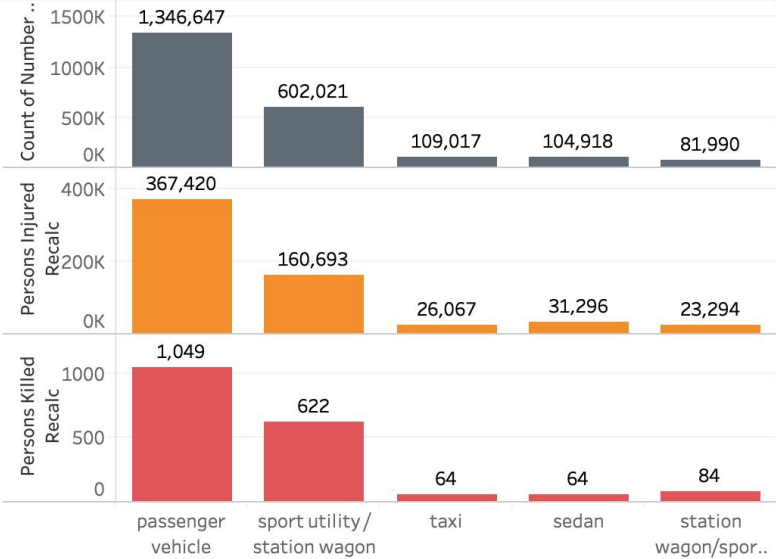
Killed vs. Borough



TOP 10 Contributing Factor

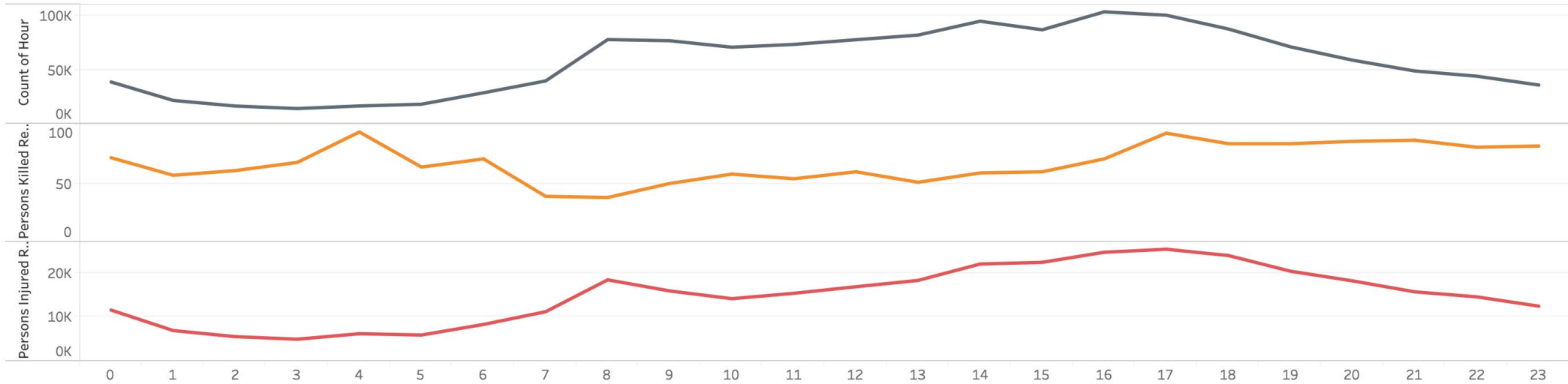


TOP 5 Vehicle Type

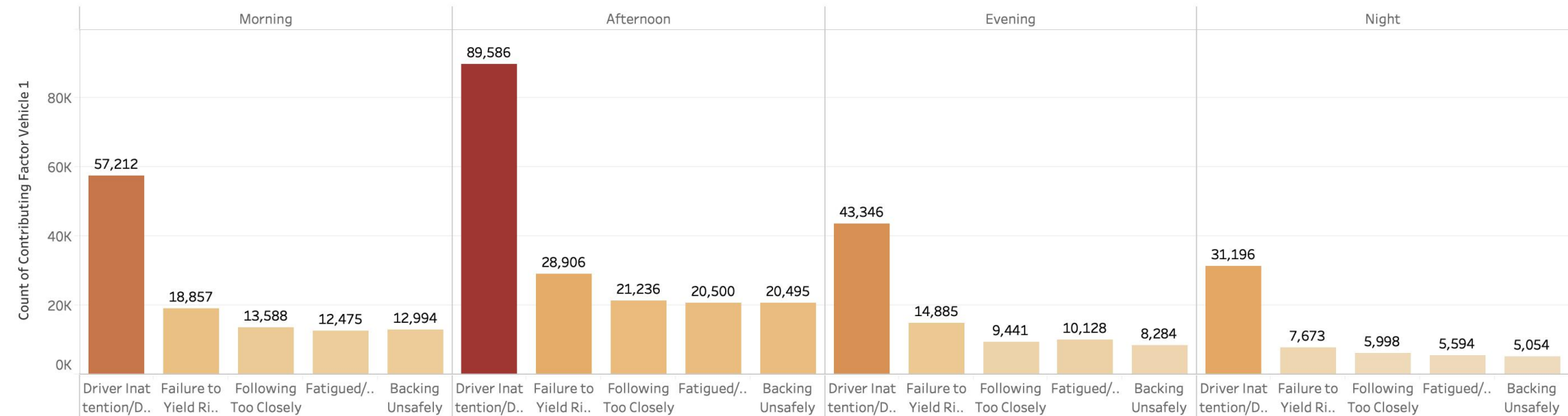


# Does time relate to collisions?

Trend of Collisions based on Day time

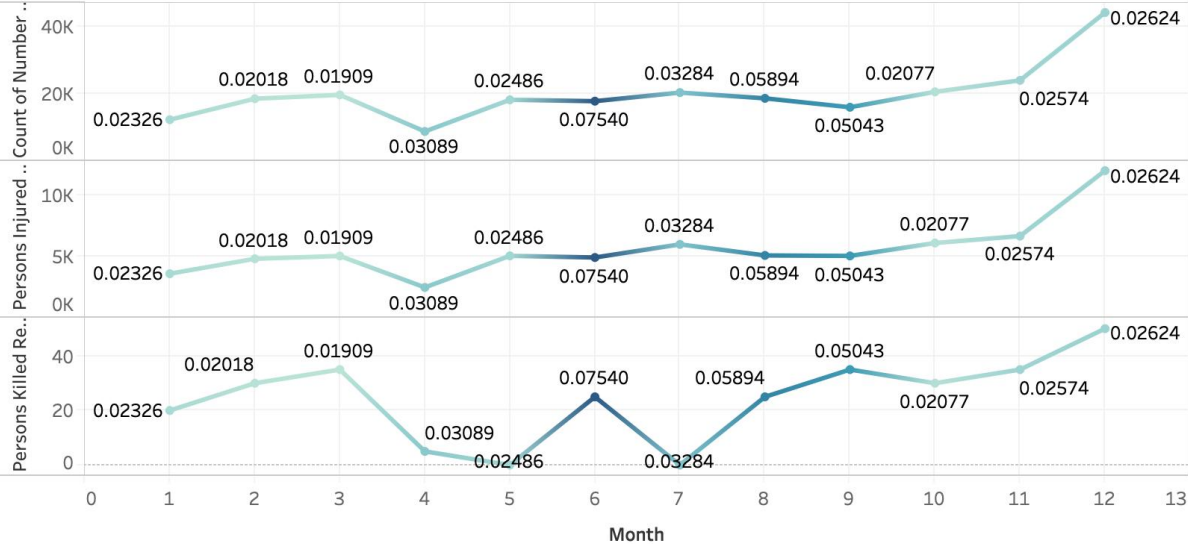


Time of the Day vs. Contributing Factors Analysis

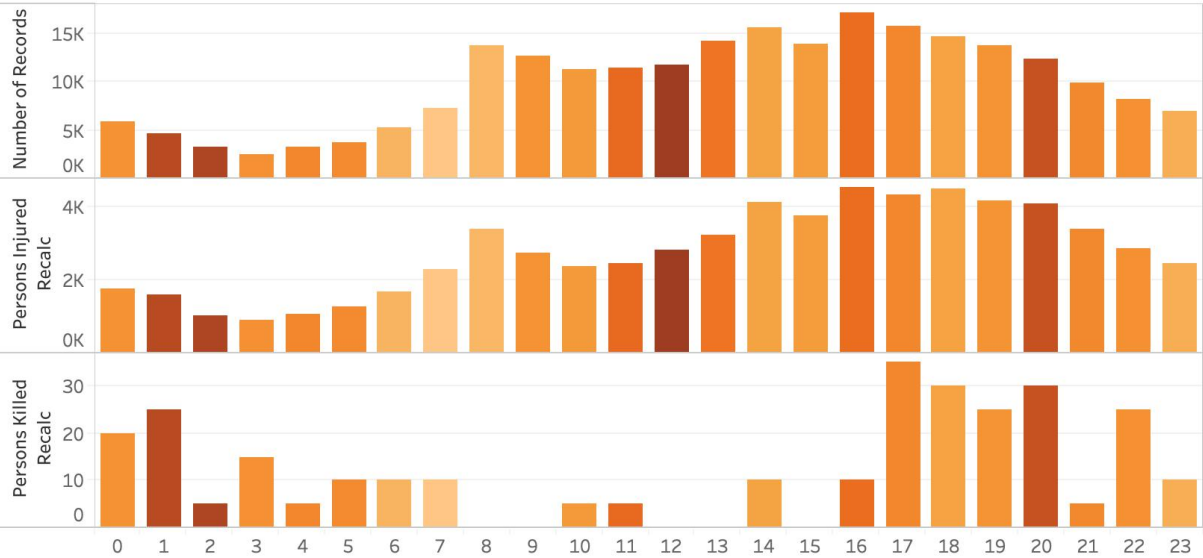


# Is precipitation a causal factor of collisions?

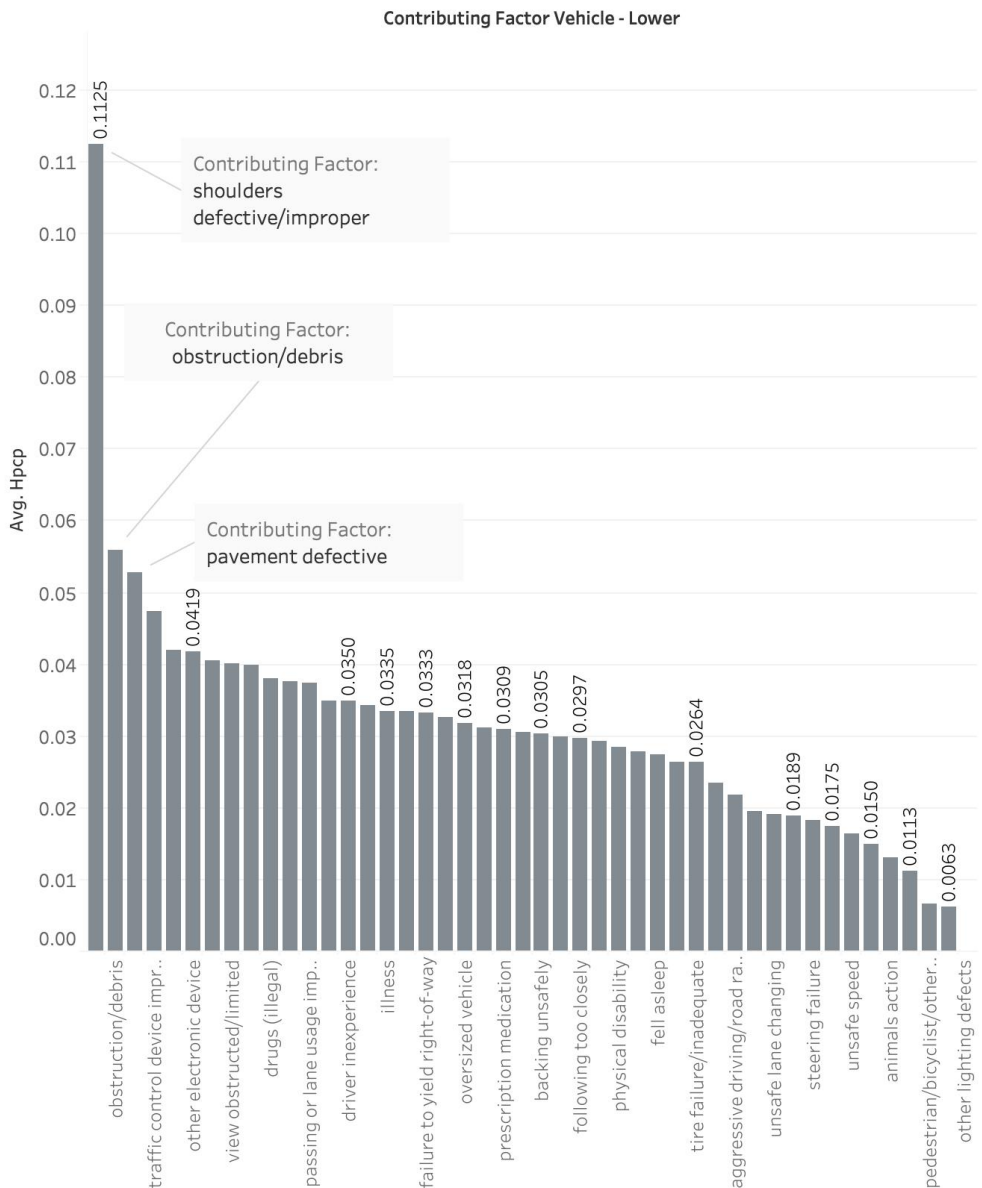
Monthly Precipitation & Collisions Analysis



Hourly Precipitation & Collisions Analysis



Precipitation & Contributing Factor Analysis





# Achievements and Challenges

