1. Is there a correlation between the time and frequency of accidents? If yes, then what are the factors leading up to accidents at a certain time of the day? We wish to understand this to find out the relationship between the time of day and frequency, which could allow us to narrow down the reason for it.

🡪 time series plot and find trend per 2 weeks

Digina, Sanjit

1. Number of injuries/fatalities based on the crash time. (Create bins morning, afternoon, evening etc…)

🡪 interactive pie chart

Kunal

1. Are some boroughs of NYC more accident-prone? Is there a correlation observed between the boroughs and the months in which the accidents occur? (What can the administration probably do to decongest the boroughs?)

🡪 Heatmap that changes color with time based on months

Vivek, Kunal

1. Understanding if certain types of vehicles were more involved in accidents than the others and hypothesizing the results of the analysis with automotive safety.

Finding out the vehicles causing most accidents per borough. Type of vehicle causing accidents

🡪 nxn grid heatmap

Amal

1. Discern the leading cause of accidents and determine the average fatalities and injuries (borough-wise)? Could there be a strategy implemented to reduce the occurrence of these accidents? We want to find out the borough that has the highest injuries/fatalities to have some counter-measures in place, like increased response time, more readiness in the health services or more regulation of traffic to prevent accidents in these boroughs.

🡪 leading cause of accidents vs number of injuries/fatalities – stacked bar graph

Amal, Yuan, Vivek

DEADLINE – Friday Night – complete visualizations

Markdowns and Analysis – Weekend – complete report and PPT

Presentation - TBD