NYC Collisions Analysis

Analyzing NYC traffic collisions to uncover key insights and trends for safer streets

Data Overview:

- The dataset contains recorded motor vehicle collisions in NYC, including details such as date, time, location, contributing factors, vehicle types, and injuries/fatalities.
- Key fields include Collision ID (unique identifier), Date, Borough, Contributing Factor, Vehicle Type, and Injury/Fatality Counts.

Data Transformation Process:

- Data Cleaning & Validation: Adjusted data types and validated calculations to ensure consistency in injury and fatality counts.
- Collision Severity Score: Created a metric to quantify severity using the formula: Severity Score=(Total Injuries×1)+(Total Fatalities×3)
- **Standardized Vehicle Types:** Categorized vehicles into broader groups like Passenger Vehicle, Public Transport, Emergency Services, Utility & Commercial, Non-Motorized, and Other.
- Standardized Contributing Factors: Grouped causes into Human Error, Environmental Factors, Vehicle Issues, Impairment, and Other.
- Incident Severity Ranking: Classified collisions into Minor, Moderate, or Severe based on injury/fatality counts.

2023

Key Measures & Insights:

2021

- Average Collision Severity Score to assess incident impact.
- Collision Count by Cause to determine leading reasons for accidents.
- Daily & Monthly Average Collisions for trend analysis.
- Total Collisions as an overall indicator of traffic incidents.

2022

• Top Collision Causes by Borough to identify location-based trends.

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Introduction

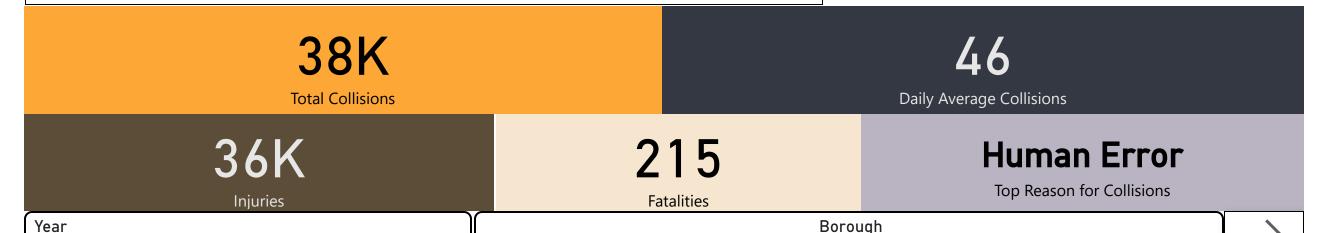
Historical Trends

Severity and Contributing Factors

Injuries and Fatalities

Queens

Staten Island



Bronx

Brooklyn

Manhattan

