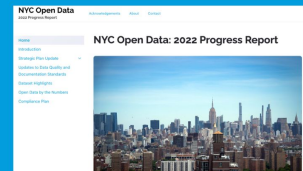


# February 2023 NYC Vehicle Collisions

## Open Data for All New Yorkers

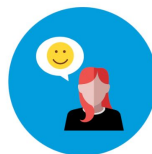
Open Data is free public data published by New York City agencies and other partners. **Learn from past Open Data Week events**, or **sign up for the NYC Open Data mailing list** to find training opportunities and upcoming events.

Search Open Data for things like 311, Buildings, Trees



Learn about the next decade of NYC Open Data, and read our 2022 Report

### How You Can Get Involved



#### New to Open Data

Learn [what data](#) is and how to get started with our [How To](#).



#### Data Veterans

View details on [Open Data APIs](#).



#### Get in Touch

Ask a question, leave a comment, or suggest a dataset to the [NYC Open Data team](#).



#### Dive into the Data

If you already know what you're looking for, you can [browse our data catalog](#).

Or, if you want to explore

# Meet Our Team



Brittini  
Breese



Yash  
Kansal



Yeyan  
Wang



Nicole  
Campos

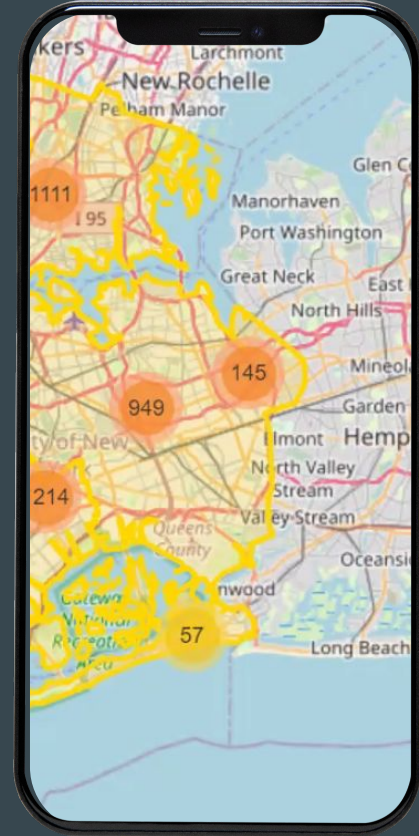


Adam  
Paganini

# Who will this inform?

Individuals concerned about traffic safety:

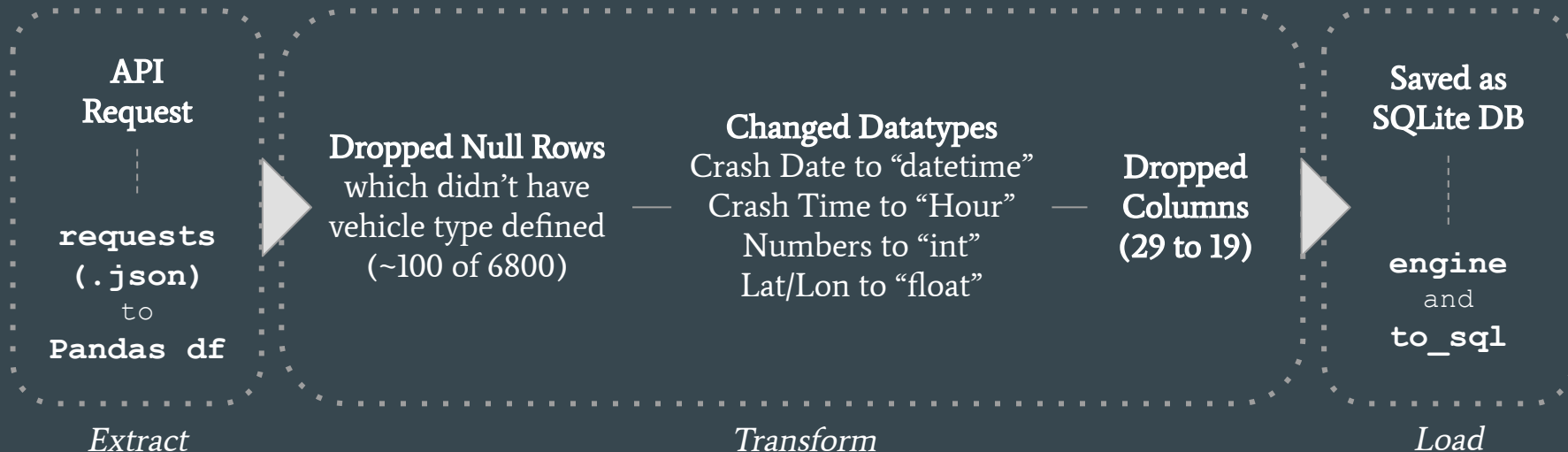
- Police departments monitoring traffic safety
- Urban planning professionals
- Traffic management applications for building smart cities
- Mapping, navigation, and route planning businesses
- Location intelligence companies



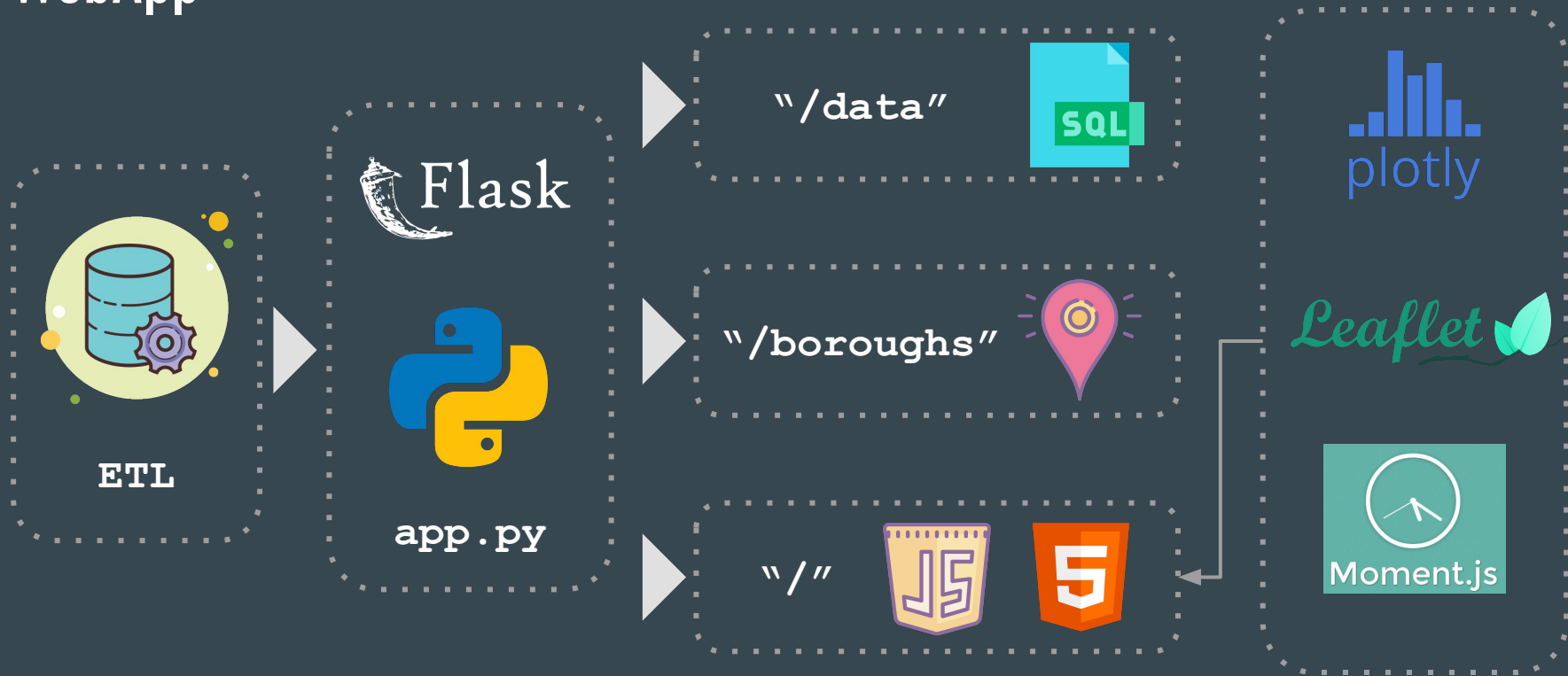
# Data Discovery

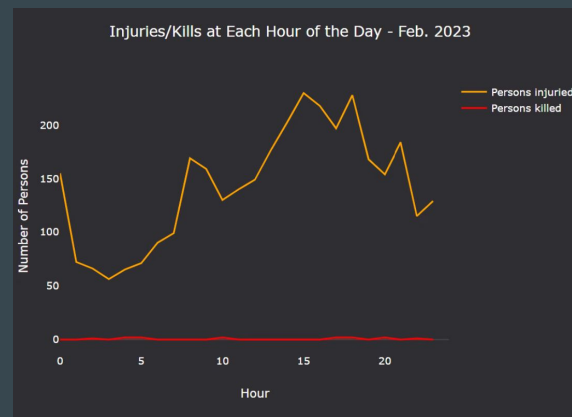
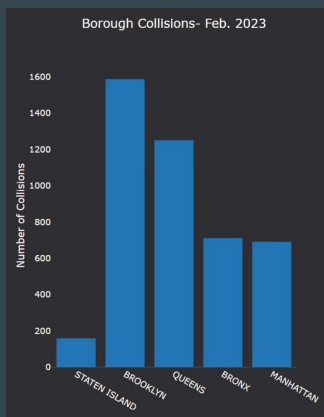
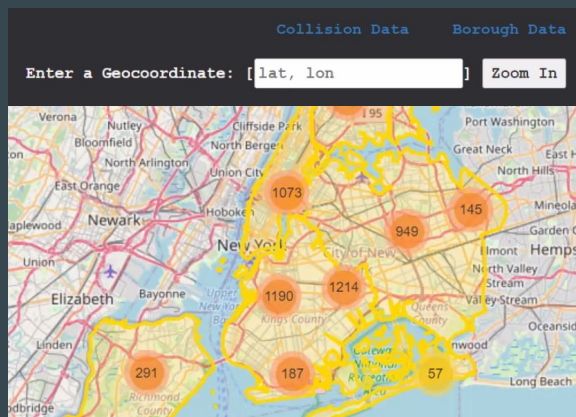
## Data Set: NYC Motor Vehicle Collisions

- ~1.98M rows of data, updated daily
  - Only used February 2023 (~6,800)
- Source: NY Police Department (NYPD)



# WebApp





## Chart Features

- Marker clusters identifying number of collisions in an area
- Marker pop up displaying more details of each collision
- Polygons displaying NYC Boroughs
- Lat/Lon zoom on specified location
- Scroll over bar/line charts to see data points

## Styling

- Tab Buttons
- Tab Contents
- Plotly Chart Layout

# DEMO

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# Key Challenges and Recommendations

- Only used one month of data due to difficulties loading the marker clusters
- Boroughs composed of multiple polygons (e.g., Staten Island)
- Random lat/longs off the coast of Ghana
- Zoom by address vs lat/long
- Efficiently store and display all the data available to enable longitudinal analysis
- Use lat/longs to label all collisions with appropriate Boroughs for popups
- Identify and remove outlier lat/longs from dataset
- Need to use another library that could parse addresses



**Thank you!**