Crime Data in New York City

VIOLENT CRIMES FROM 2017 TO 2019

Viz Wizzes

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PROJECT IMPORTANCE & RESEARCH QUESTIONS

WHERE

What parts of New York City are hotspots for crime?

WHAT

What severity of crime is most prevalent in New York City?

WHO

Is crime more commonly committed by certain demographics in New York City?

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PROJECT ARCHITECTURE

Database for crime records

Deploy HTML Server + DB Endpoint

Web page format + styling

Data manipulation+ Graphing

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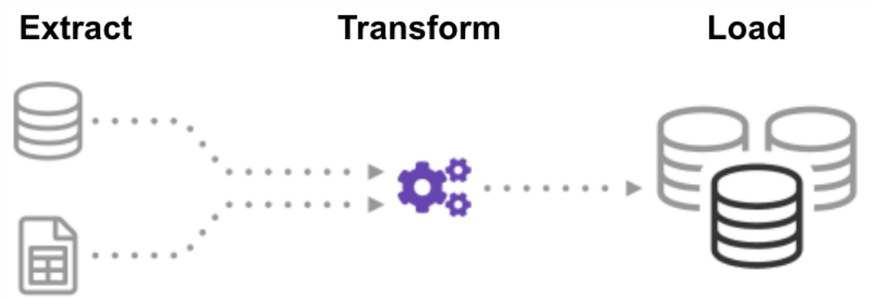


ETL PROCESS

EXTRACT

Kaggle .CSV file containing NYC crime stats from 2005 to 2019 read into a Pandas data frame

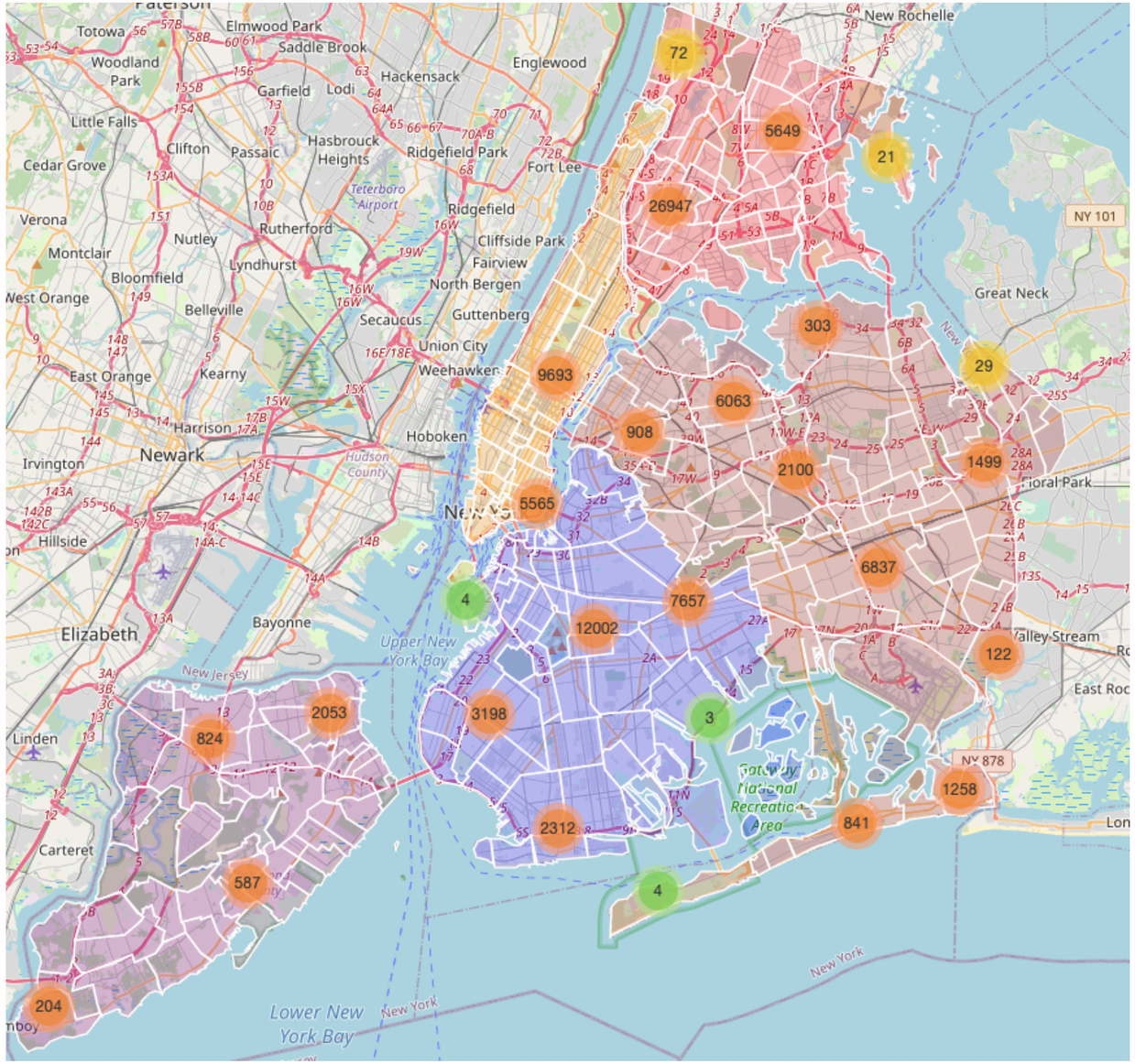
TRANSFORM

Narrowed crime data from 2017 to 2019
Used Python application to convert Postgres database to SQLite

LOAD

SQLAlchemy "to_sql" function used to insert crime data from Pandas data frame to SQLite database

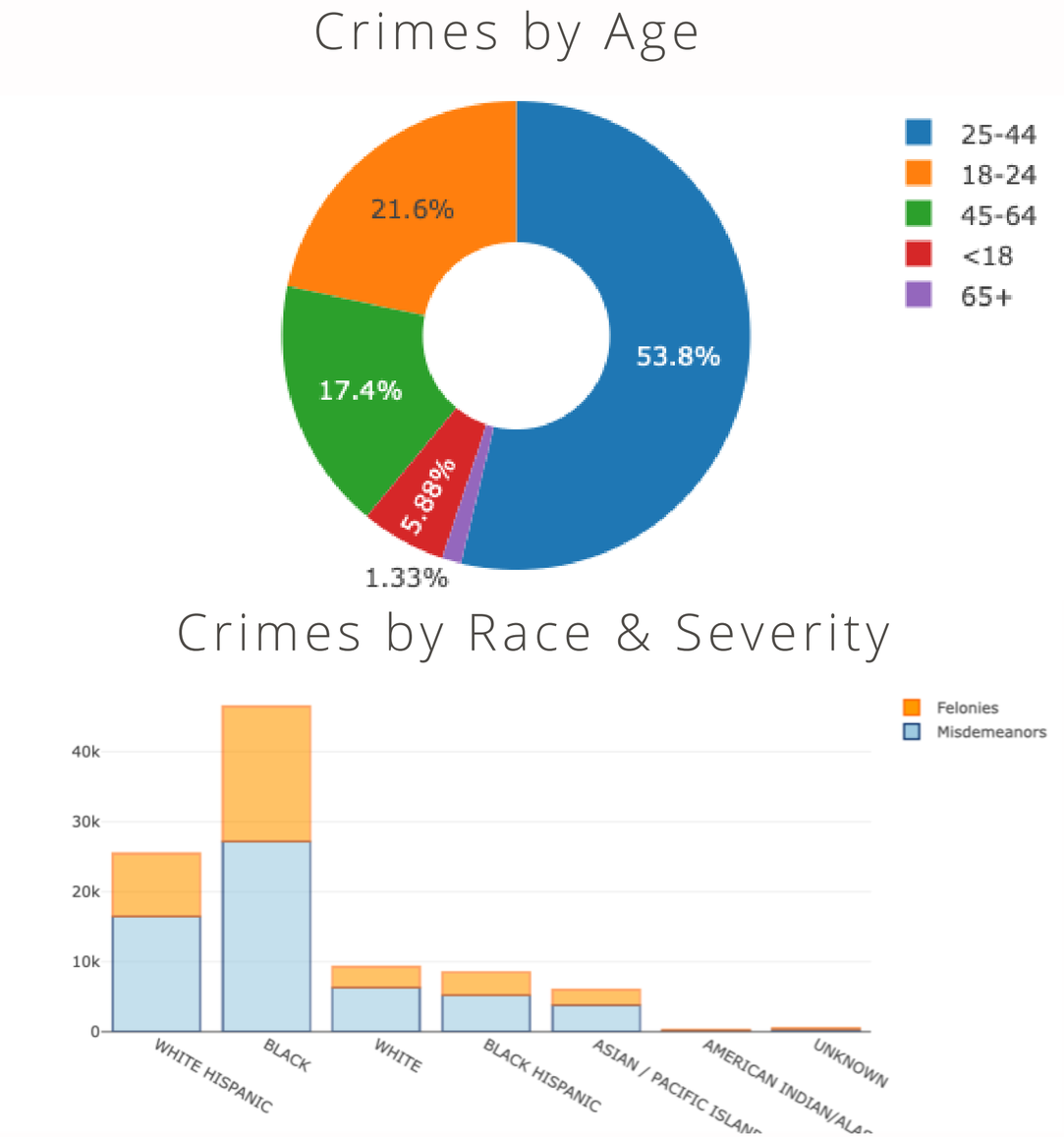
What parts of New York City are hotspots for crime?



05

Is crime more commonly committed by certain demographics in New York City?

What severity of crime is most prevalent in New York City?



FINAL THOUGHTS & POTENTIAL USES

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FINAL THOUGHTS

- Project successfully allows users to explore crime data both geographically and demographically
- Future uses would involve overlaying the crime cluster map with map layers containing other data (ex: homes for sale, Airbnb listings, etc.)

POTENTIAL USE #1

Zillow

POTENTIAL USE#2

NYC Office to Prevent Gun Violence

QUESTIONS

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