DAMG7370 Workshop

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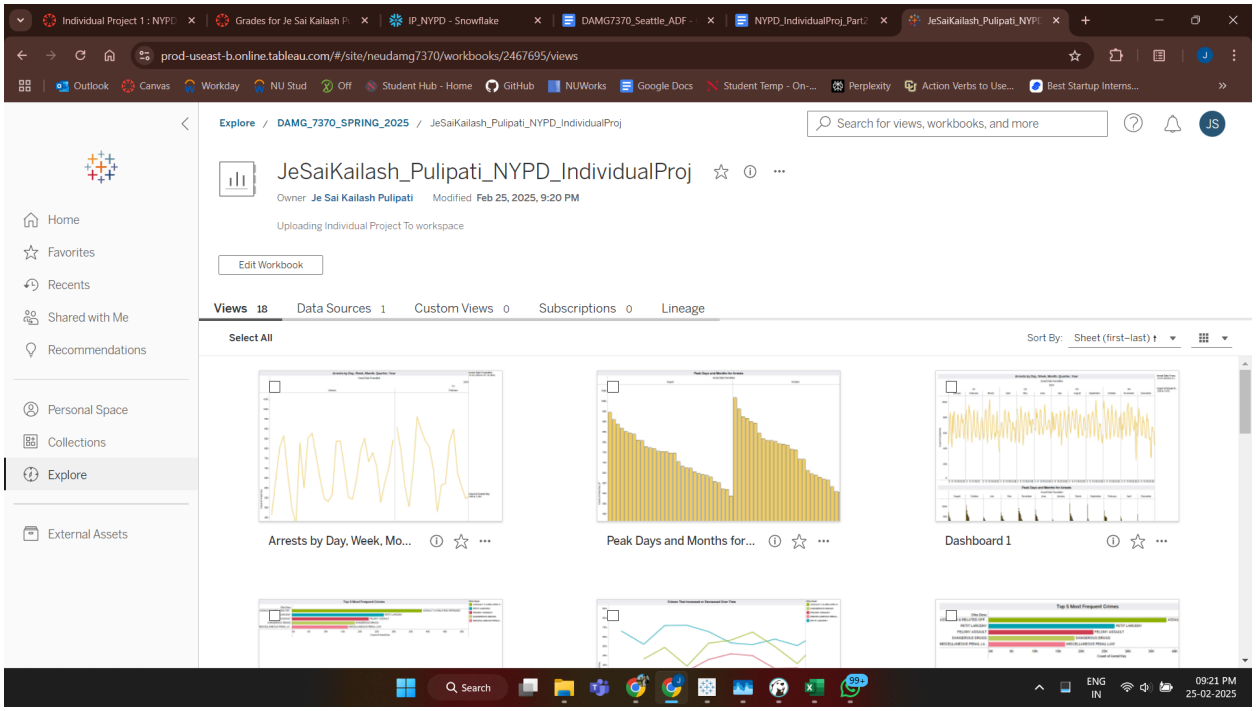
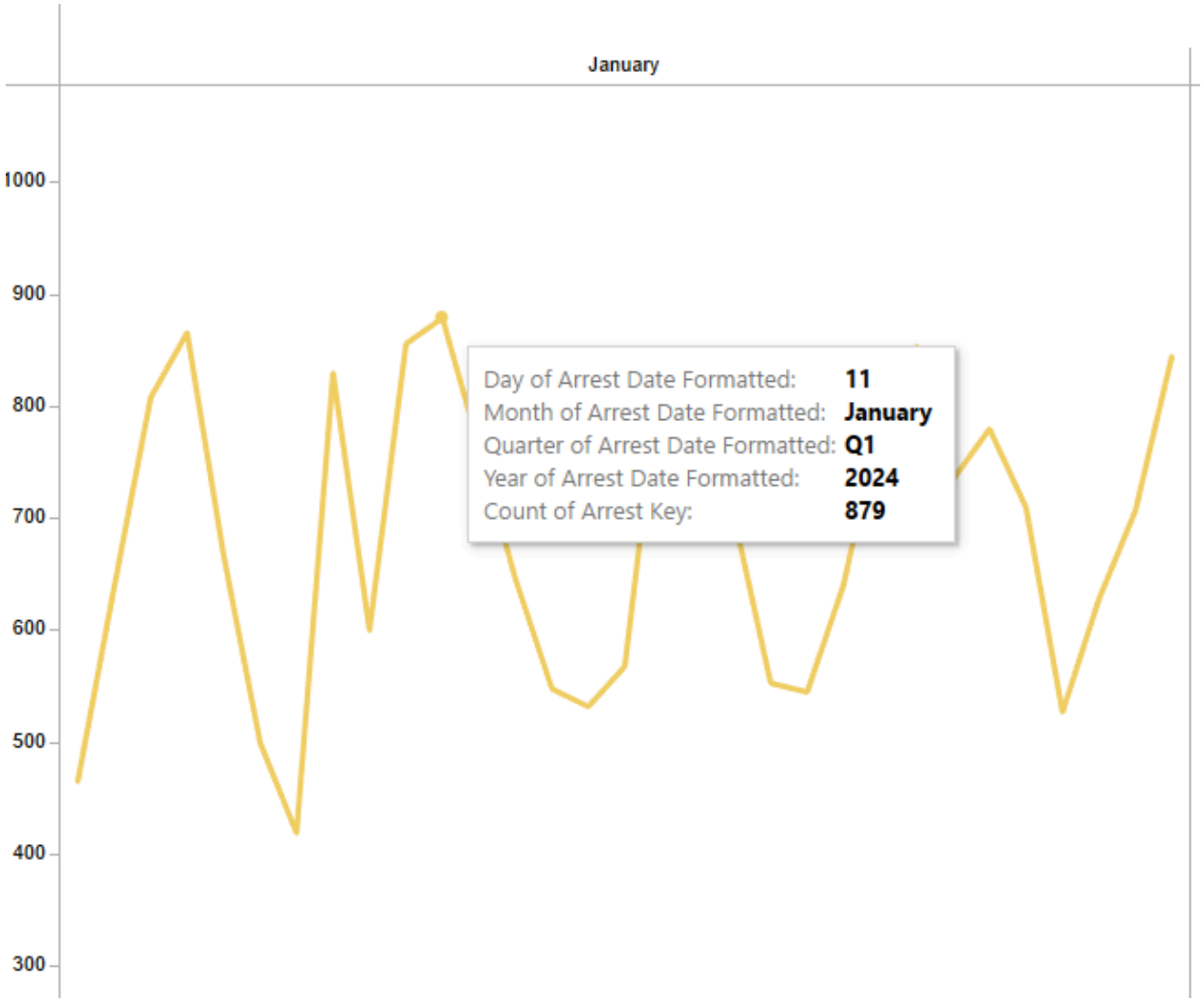
Published to Tableau Workspace



Dashboard 1: Time-Based Analysis

The Time-Based Analysis dashboard shows arrest patterns across different times which are daily, weekly, monthly, and yearly.

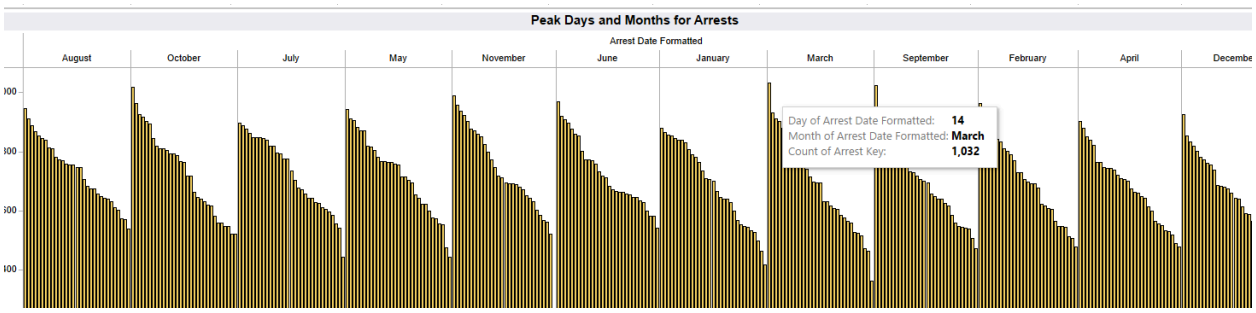
How many arrests occurred on any specific day, week, month, quarter, or year?



- Arrests exhibit a clear weekly and monthly cycle, with peaks typically occurring towards weekends.

What are the peak days and months for arrests?

- September and March show higher arrest volumes, indicating seasonal patterns.
- The graph indicates that March 14th had a higher crime rate than any other day
- August and October have higher crimes during the overall year


Peak Days and Months for Arrests
Arrest Date Formatted
August
October
July
May
November
June
January
March
September
February
April
Day of Arrest Date Formatted: 14
Month of Arrest Date Formatted: March
Count of Arrest Key: 1,032

Dashboard:

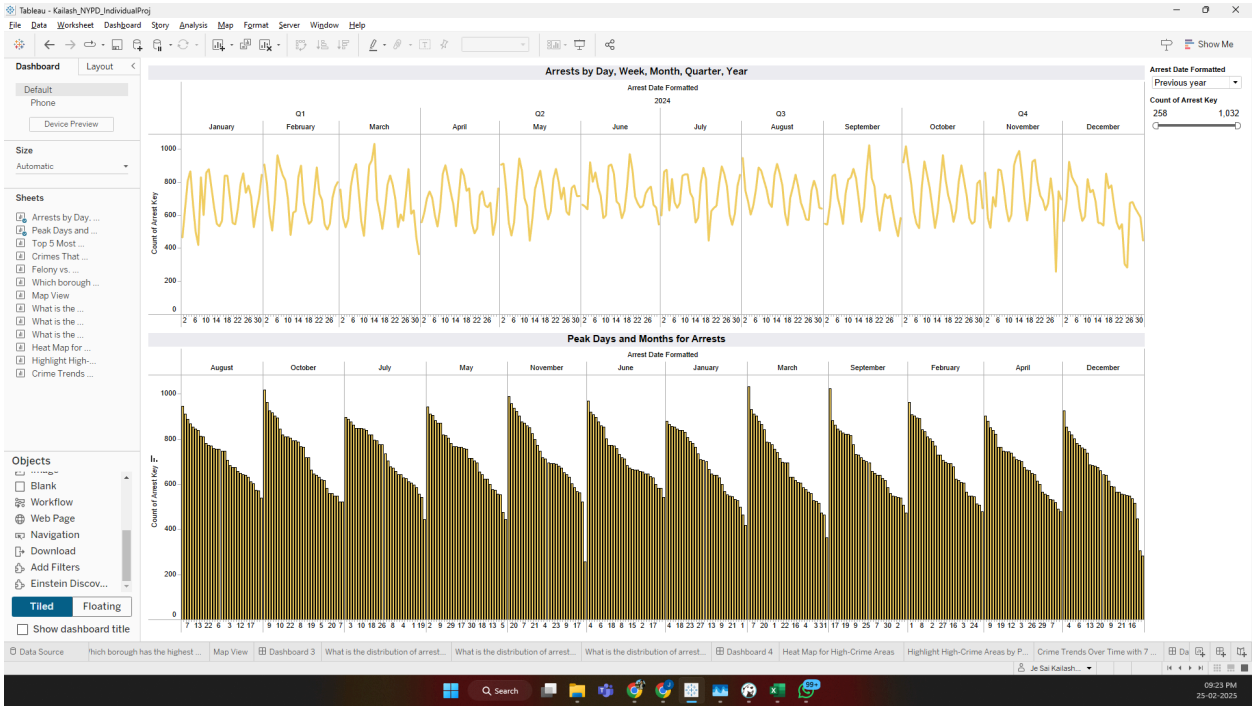


Tableau - Kailash_NYPD_IndividualProj
Arrests by Day, Week, Month, Quarter, Year
Arrest Date Formatted
2024
Q1
Q2
Q3
Q4
January
February
March
April
May
June
July
August
September
October
November
December
Count of Arrest Key
Arrest Date Formatted
Previous year
Count of Arrest Key
258
1,032
Peak Days and Months for Arrests
Arrest Date Formatted
August
October
July
May
November
June
January
March
September
February
April
December
Count of Arrest Key
Dashboard
Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
Arrests by Day, ...
Peak Days and ...
Top 5 Most ...
Crimes That ...
Felony vs. ...
Which borough ...
Map View
What is the ...
What is the ...
What is the ...
Heat Map for ...
Highlight High-...
Crime Trends ...
Objects
Blank
Workflow
Web Page
Navigation
Download
Add Filters
Einstein Discov...
Tiled
Floating
Show dashboard title
Show Me
Data Source
Map View
Dashboard 3
Dashboard 4
Heat Map for High-Crime Areas
Crime Trends Over Time with 7 ...
Search
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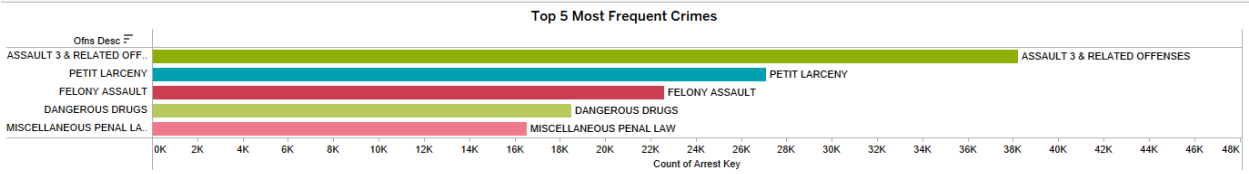
25-02-2025

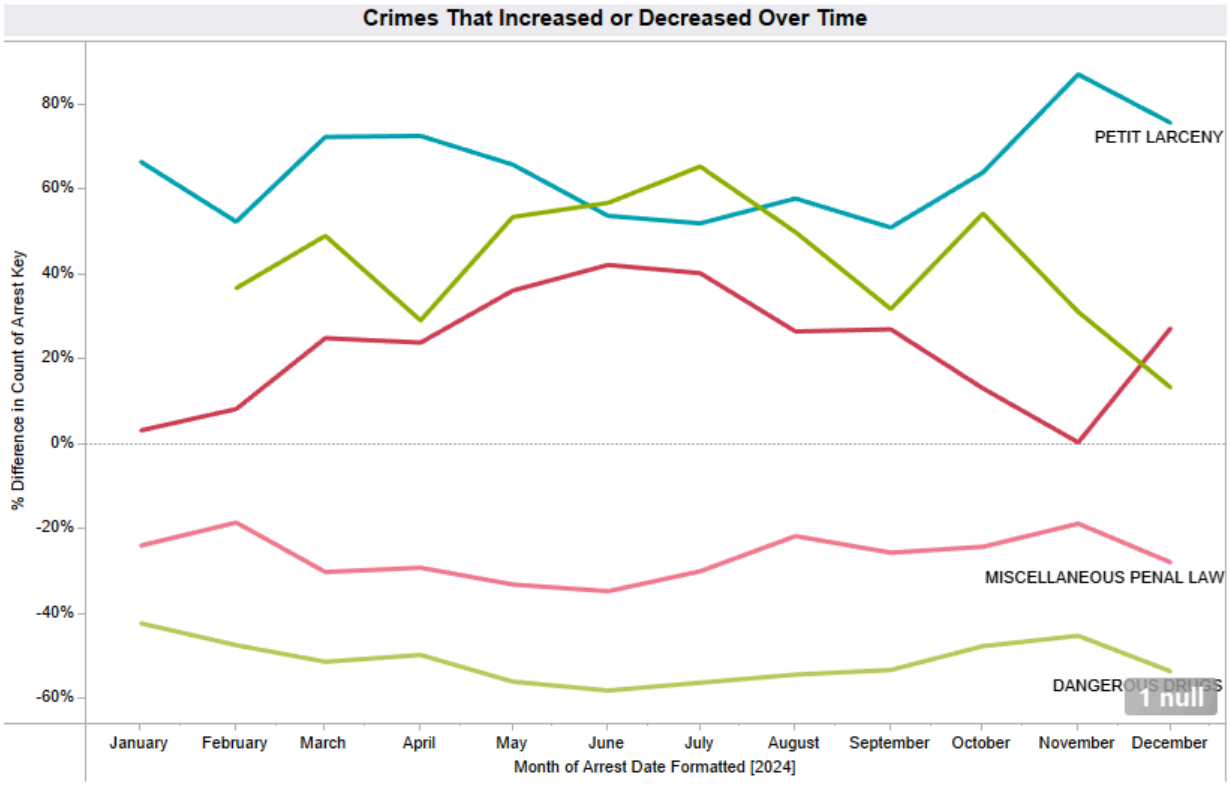
Dashboard 2: Crime Patterns & Trends

- The Crime Patterns & Trends dashboard highlights the top 5 most frequent crimes, with leading, Assault and Related Offence

What are the top 5 most frequently occurring crimes

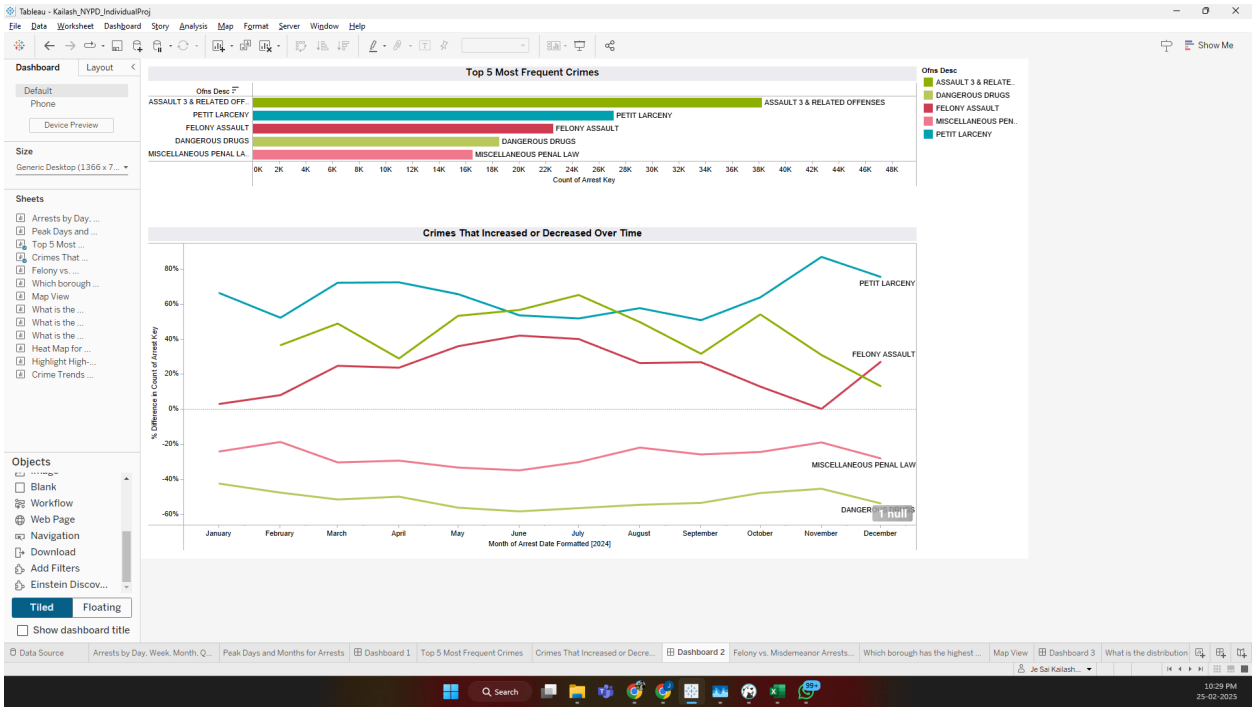


Which crimes have increased or decreased the most over time?



- Trend analysis reveals that Petit Larceny has increased significantly in the past year, while Dangerous Drugs-related arrests have decreased.
- This insight helps in understanding changing crime dynamics and focusing preventive efforts.

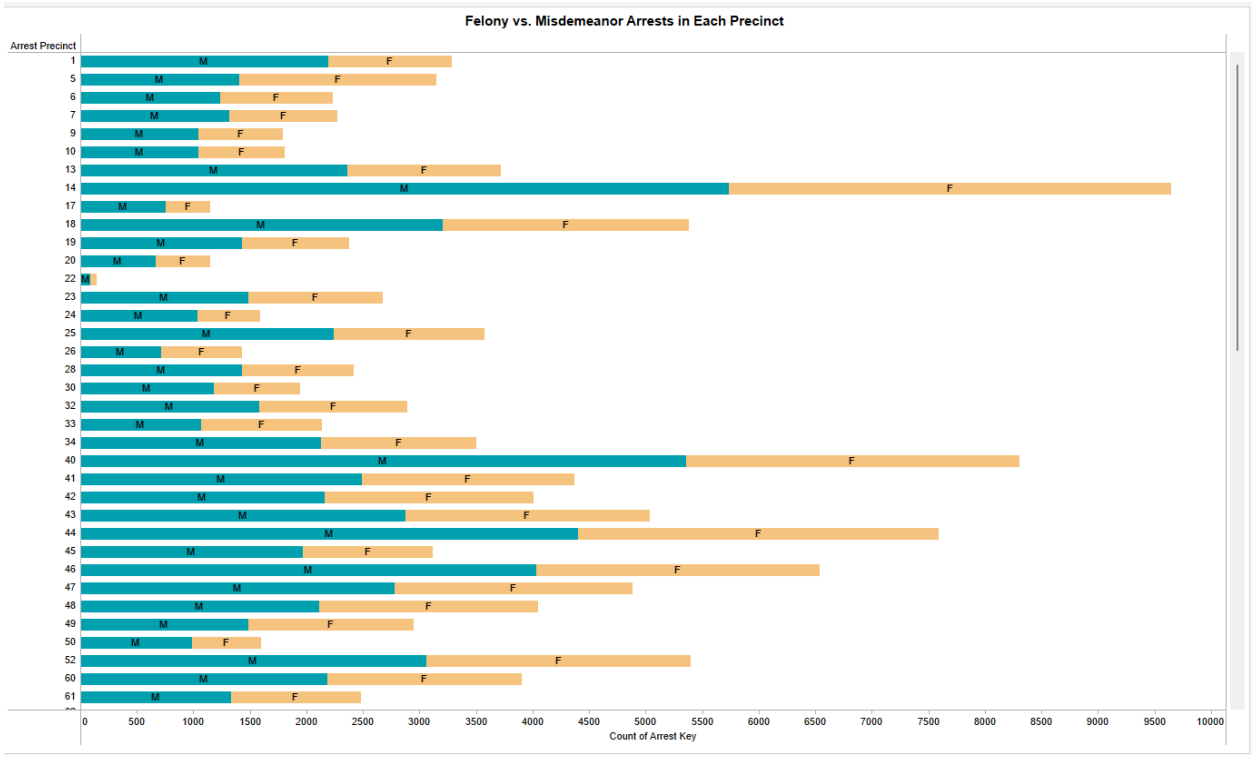
Dashboard:



Dashboard 3: Geographic Analysis

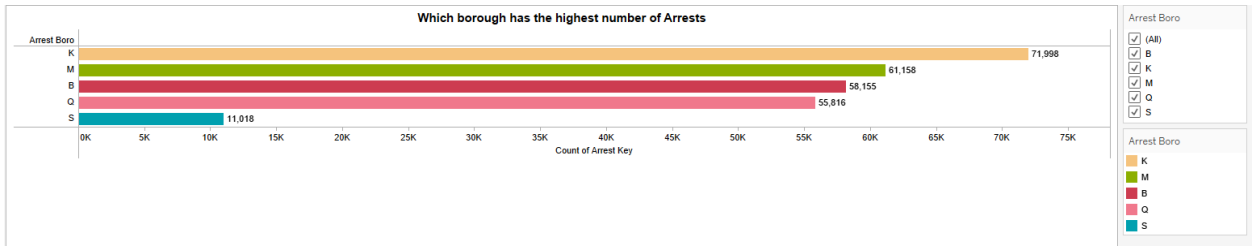
The Geographic Analysis dashboard visualizes the distribution of felony and misdemeanor arrests across precincts and boroughs.

What is the distribution of felony vs. misdemeanor arrest in each precinct?



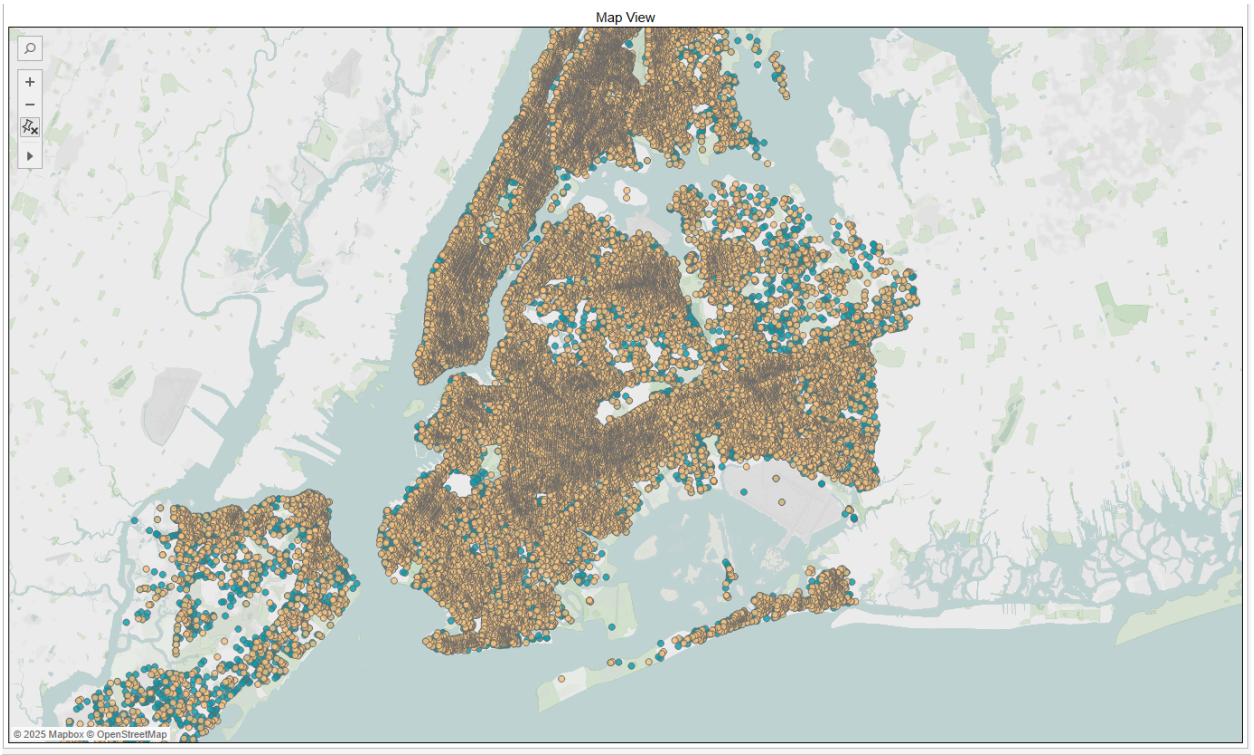
- This Barchart shows the distribution of felony vs. misdemeanor arrest in each precinct.
- Precinct 14 has the highest arrests, with felony arrests dominating in most high-crime areas.

Which borough has the highest number of arrests?



- Brooklyn (K) leads in arrest counts, followed by Manhattan (M) and the Bronx (B).

The map helps in clearly highlights hotspots, aiding resource allocation for law enforcement.


Map View
© 2025 Mapbox © OpenStreetMap

Dashboard:

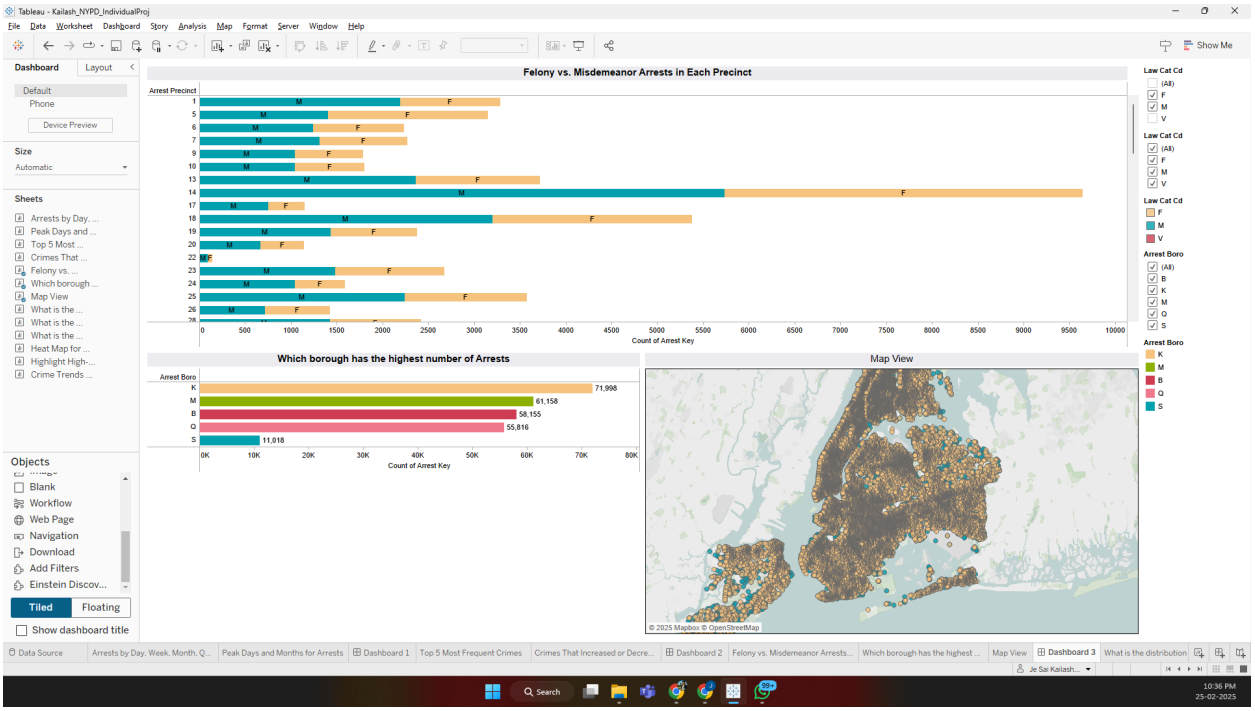
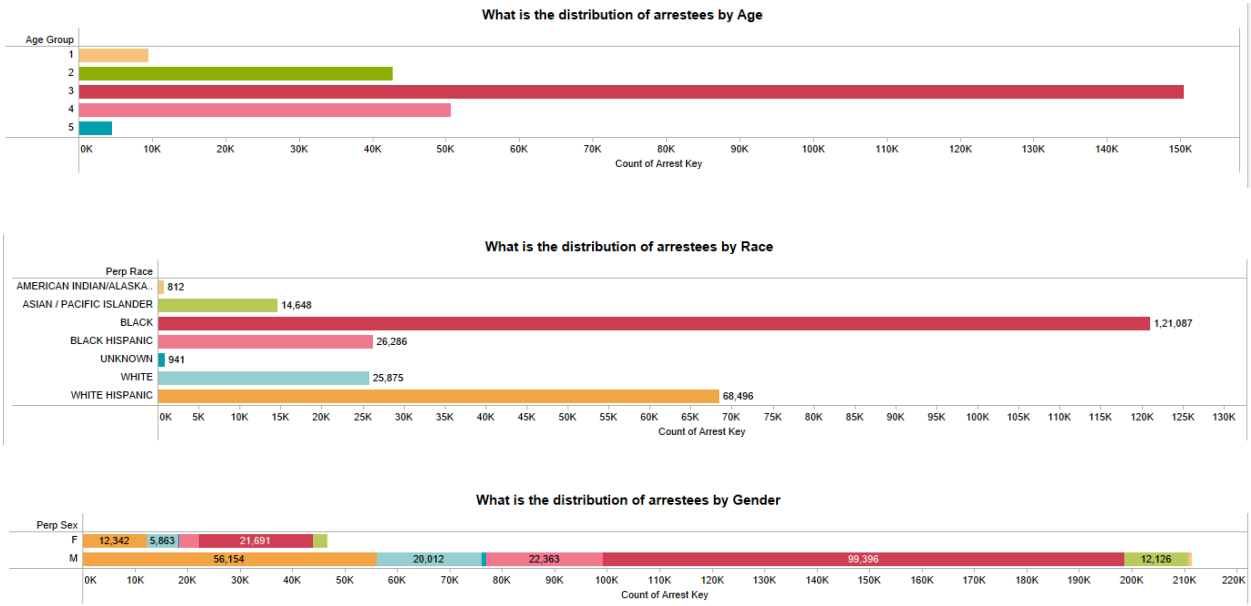


Tableau - Kailash_NYPD_IndividualProj
Felony vs. Misdemeanor Arrests in Each Precinct
Count of Arrest Key
Which borough has the highest number of Arrests
Arrest Boro
71,998
61,158
58,155
55,816
11,018
Count of Arrest Key
Map View
© 2025 Mapbox © OpenStreetMap
Dashboard
Layout
Sheets
Objects
Tiled
Floating
Show dashboard title

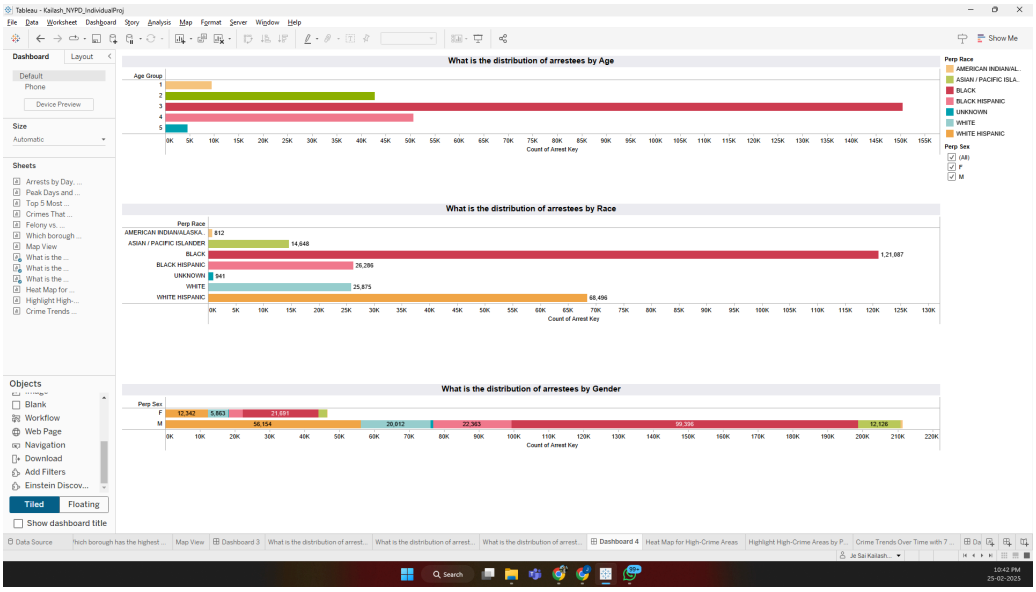
Dashboard 4: Demographic Analysis of Arrests

What is the distribution of arrestees by age, race, and gender?



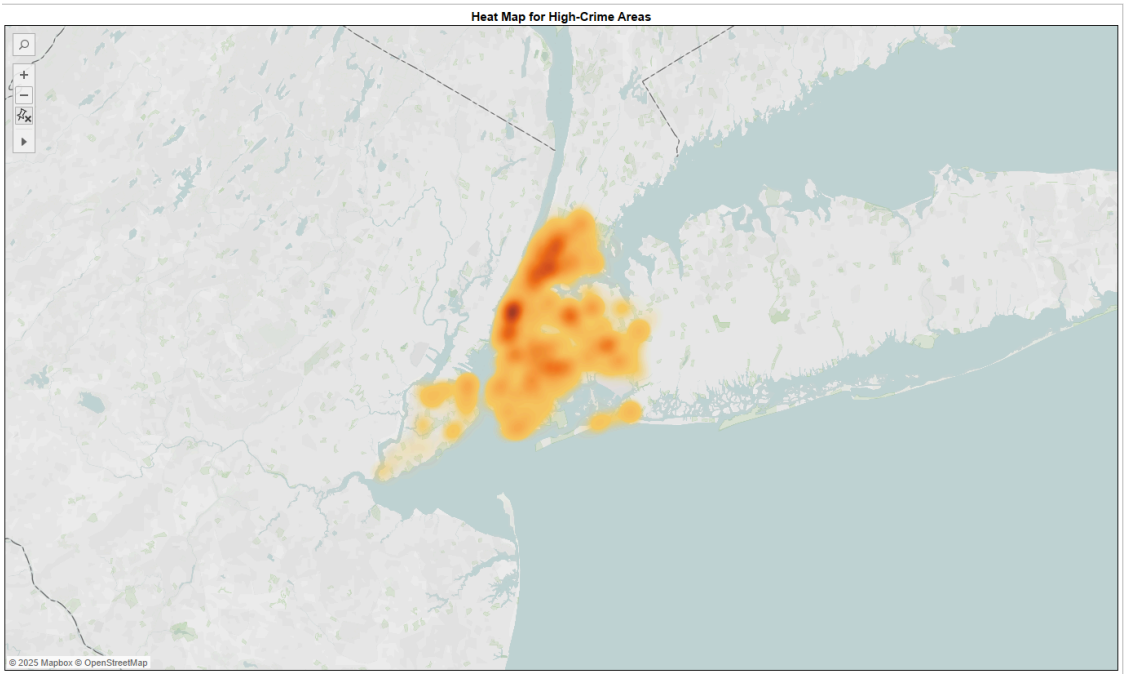
- The Demographic Analysis dashboard reveals that most arrestees fall within the 18-25 age group.
- Black and Hispanic individuals constitute a significant portion of arrests, while males dominate gender-based arrests.
- These insights can guide community outreach and intervention strategies tailored to specific demographics.

Dashboard

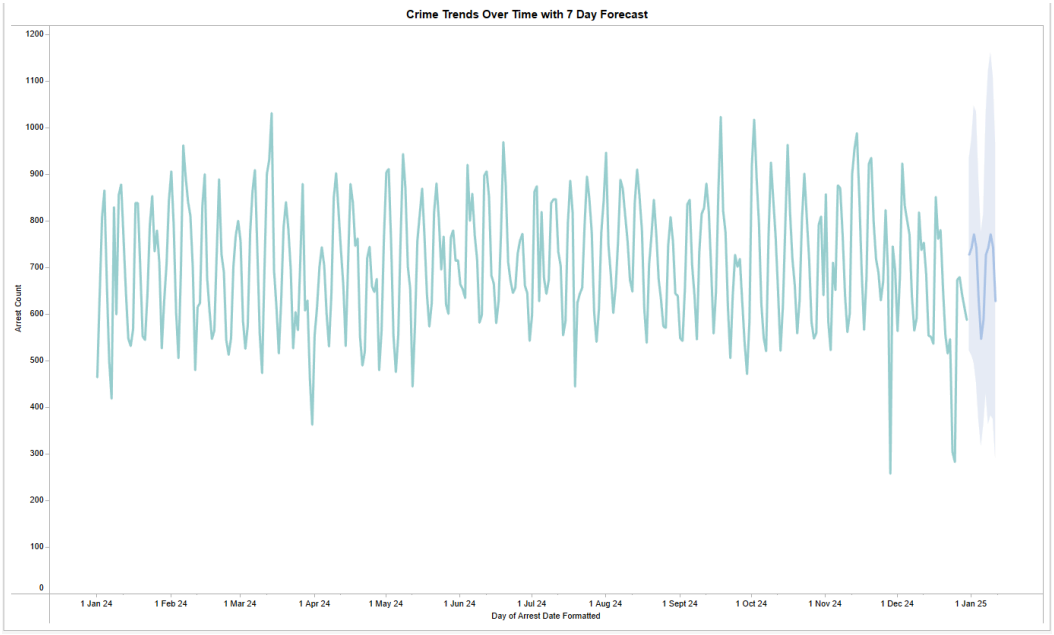


Dashboard 5: Predictive & Preventive Insights
The Predictive & Preventive Insights dashboard identifies high-crime areas based on historical trends.

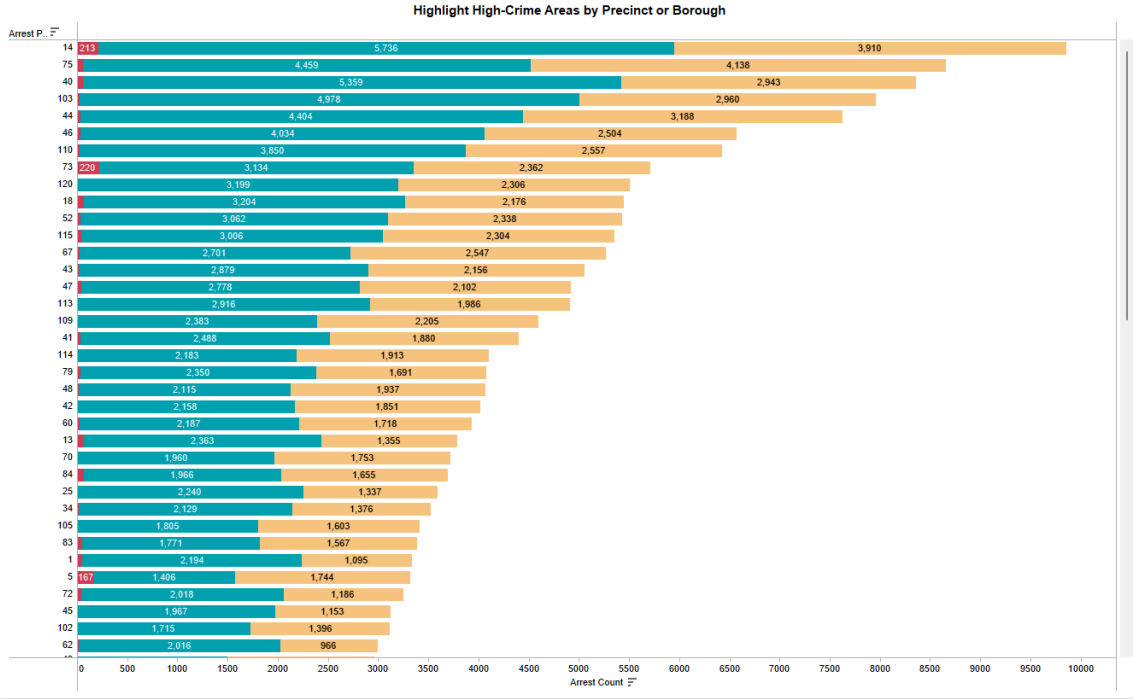
Can we identify high-crime areas based on historical trends?



- The heat map shows concentrated arrest activity in Brooklyn and parts of Manhattan.



- The trend analysis forecasts an increase in crime during summer months, enabling proactive resource planning.



- Filtering by crime type further enhances the understanding of specific threats in different areas.

Dashboard: