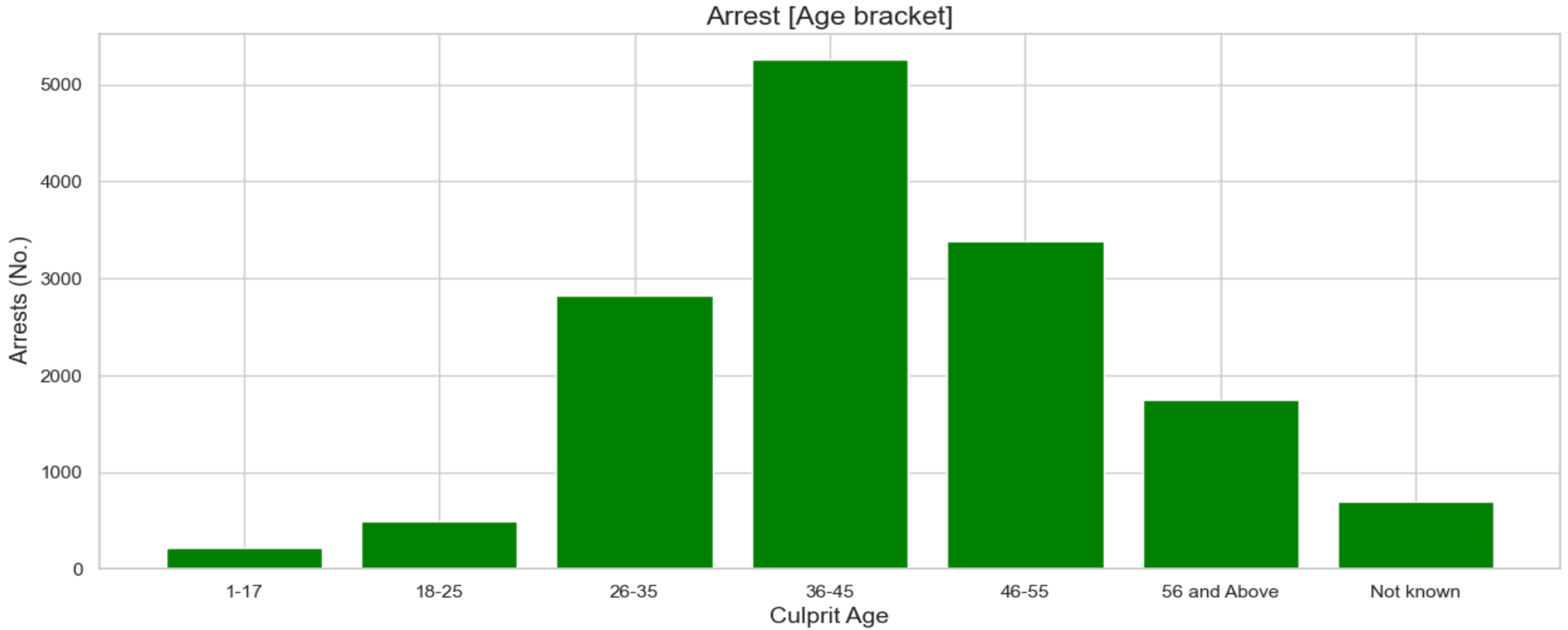
Analysis of traffic Stops in Seattle

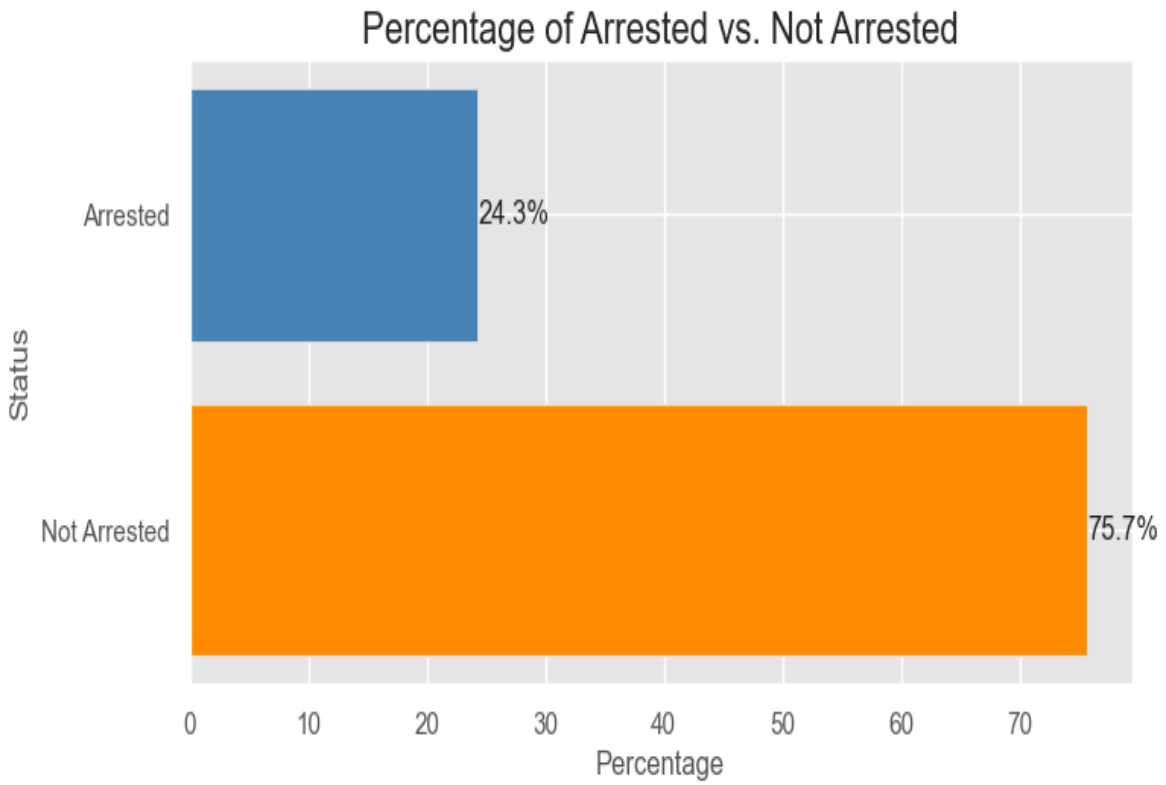
Presented by Allan Kiplagat

24Slides

Purpose of DATA DRIVEN



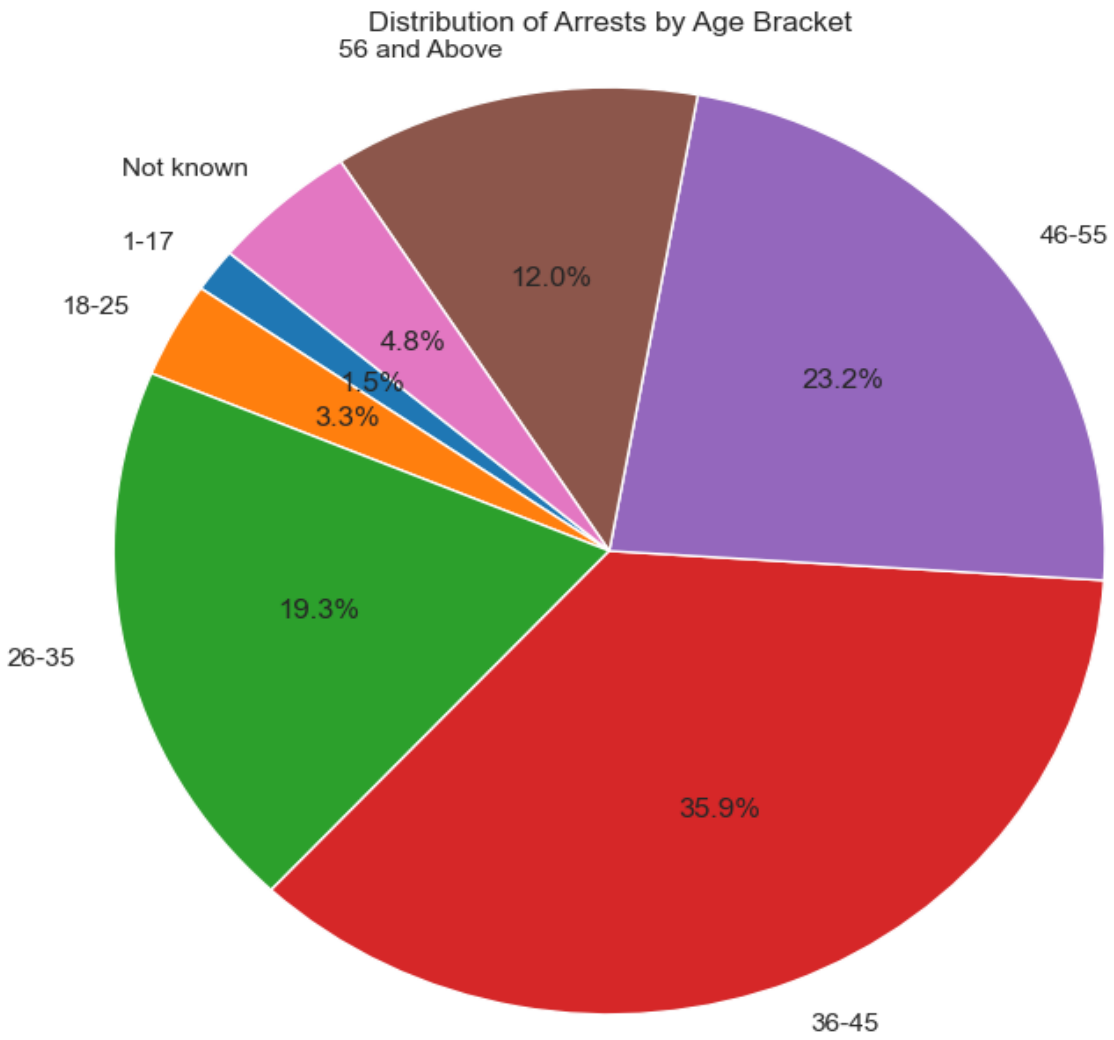
Percentage of Arrested vs. Not Arrested



Slide Content:

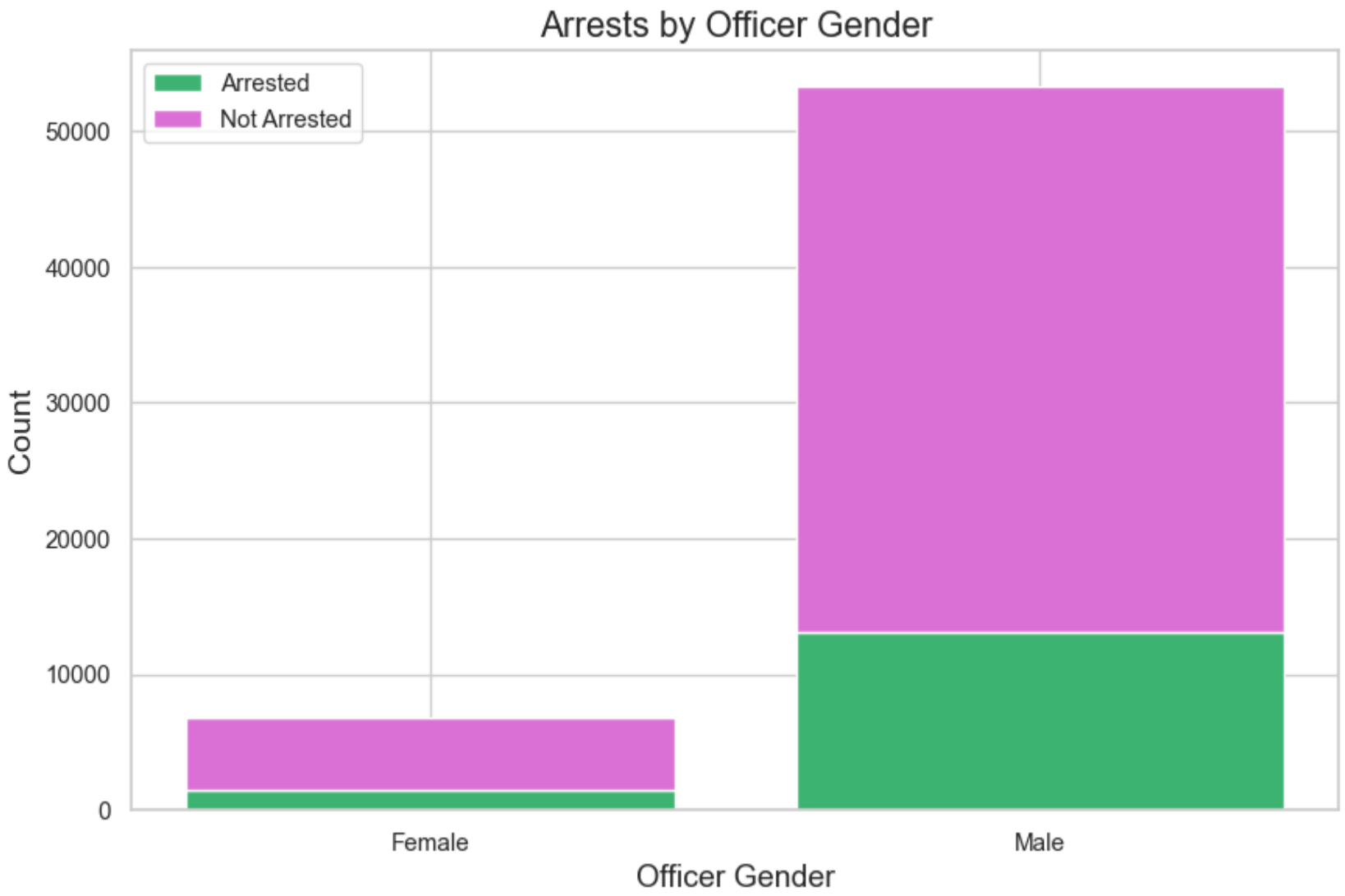
- We used matplotlib to create a horizontal bar chart to visualize the percentage of arrests compared to non-arrests.
- We calculated the sizes for both arrested and not arrested individuals in our dataset.
- Then, we calculated the percentages of arrests and non-arrests relative to the total number of entries.
- The horizontal bar chart displays these percentages for easy comparison.

GUIDE: EDITING DATA IN THIS TEMPLATE

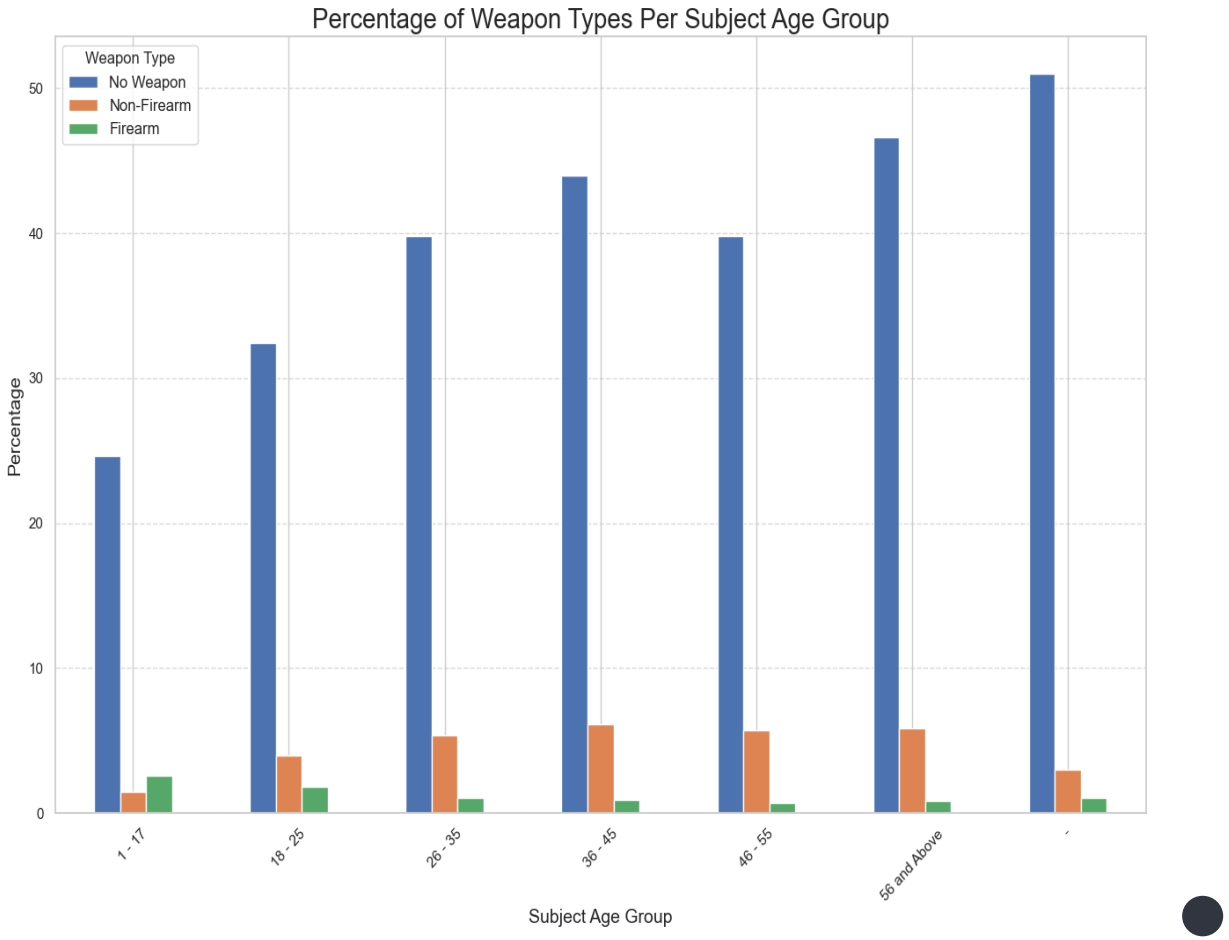


-We utilized matplotlib library to create a pie chart representing the distribution of arrests based on age brackets.Age ranges were defined from 1-17, 18-25, 26-35, 36-45, 46-55, 56 and Above, and -Not known.The data was grouped by subject age group, and the sum of arrests within each age bracket was calculated.
-The pie chart visualizes the percentage distribution of arrests across different age ranges.

DATA DRIVEN

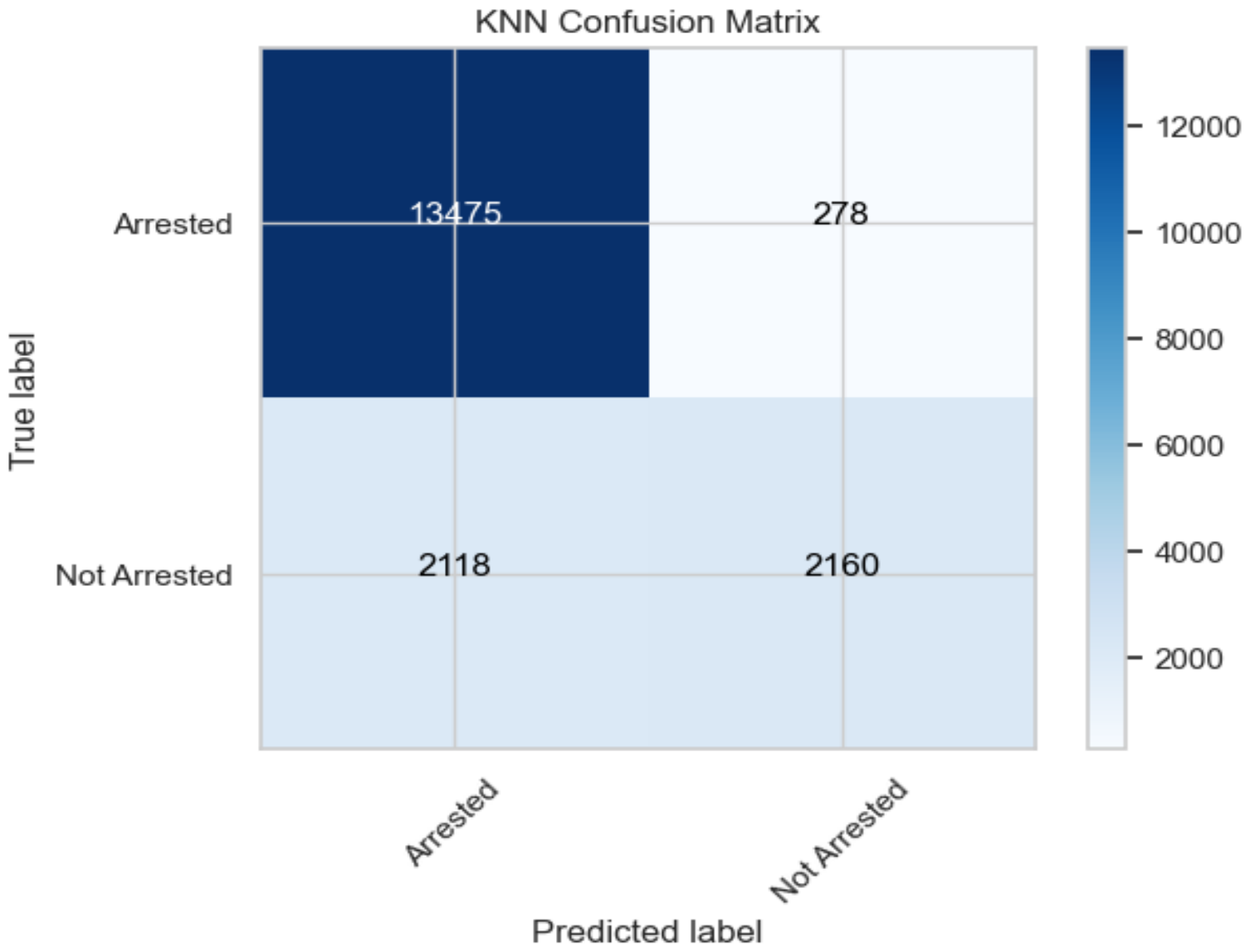

Arrests by Officer Gender
Arrested
Not Arrested
50000
40000
30000
20000
10000
0
Count
Female
Male
Officer Gender

Percentage of Weapon Types Per Subject Age Group

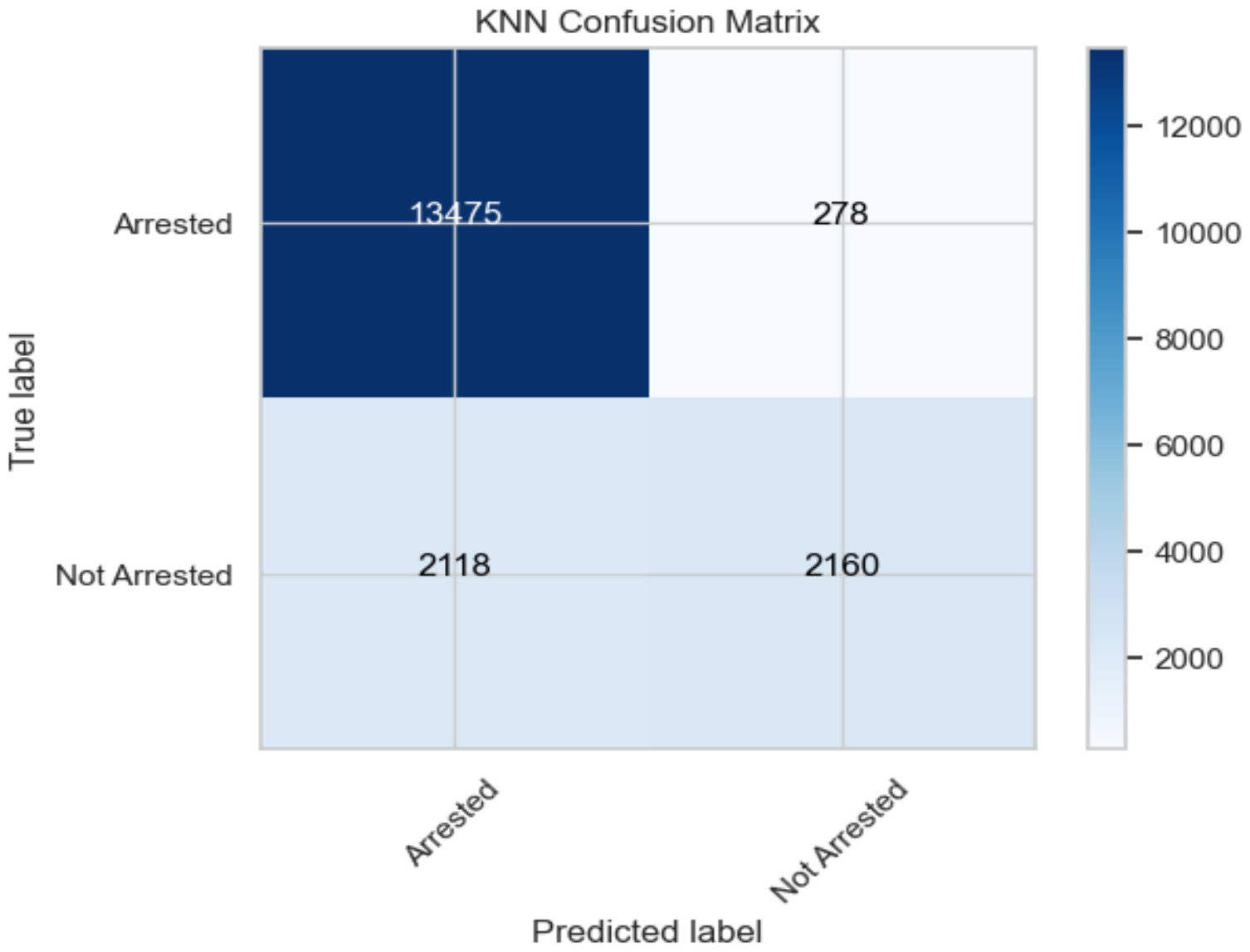


- Insert a bar chart showcasing the distribution of weapon types across different age groups.
- The horizontal axis represents age groups.
- The vertical axis represents the percentage of occurrences.
- age groups are labeled along the horizontal axis for clarity.
- The vertical axis is labeled "Percentage" to denote the proportion of incidents.
- The chart title, "Understanding Weapon Distribution by Age," provides context to the data.

DATA DRIVEN


KNN Confusion Matrix
Arrested
Not Arrested
True label
13475
278
2118
2160
12000
10000
8000
6000
4000
2000
Arrested
Not Arrested
Predicted label

DATA DRIVEN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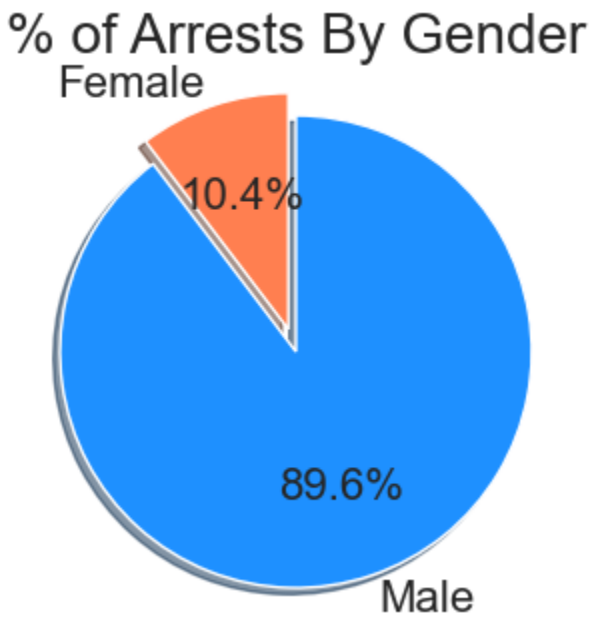
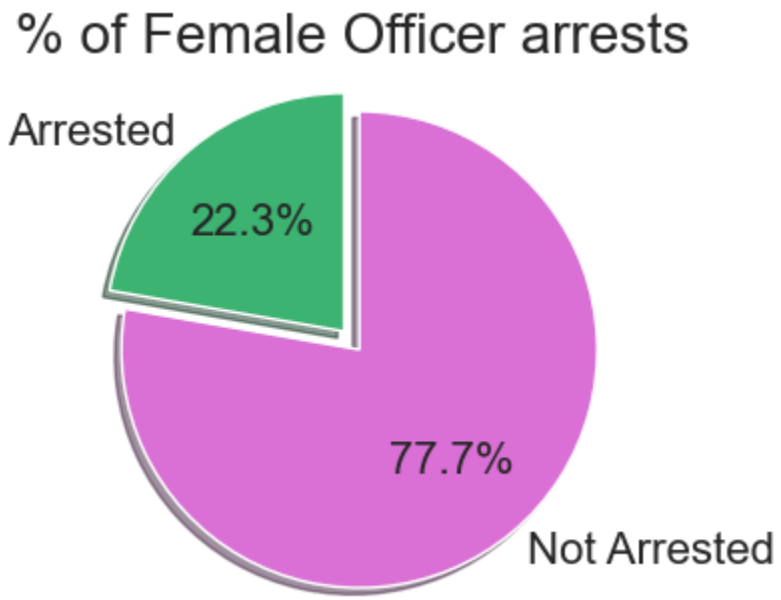
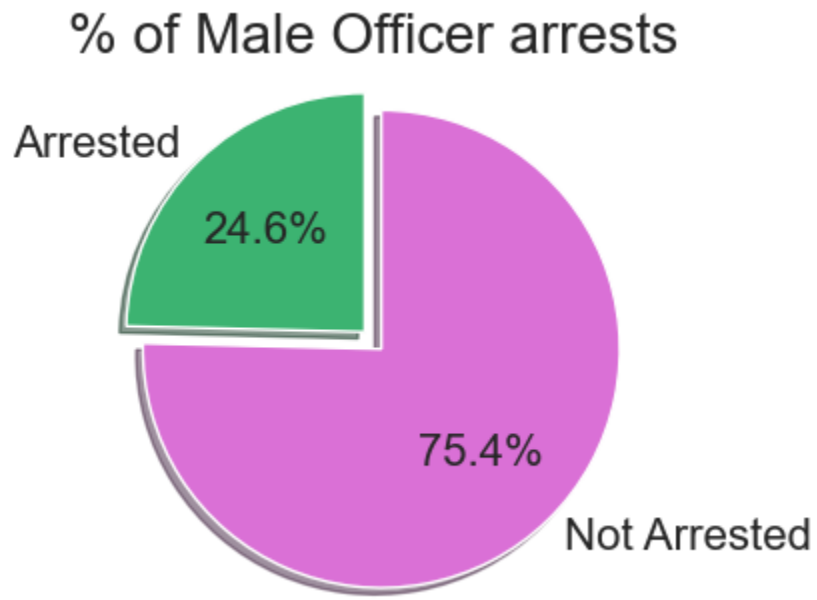
DATA DRIVEN


% of Arrests By Gender
Female
10.4%
89.6%
Male


% of Female Officer arrests
Arrested
22.3%
77.7%
Not Arrested


% of Male Officer arrests
Arrested
24.6%
75.4%
Not Arrested


THANK YOU