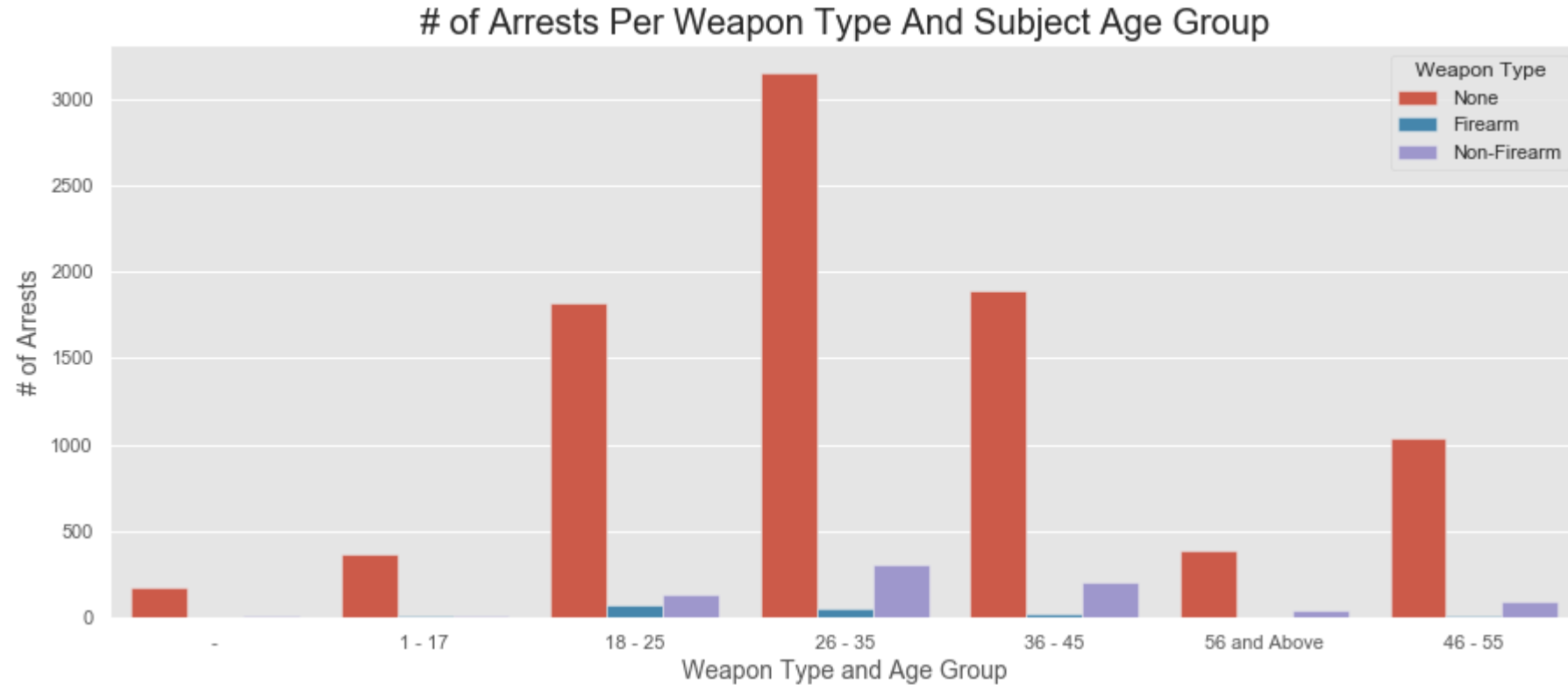




Analysis of traffic Stops and arrest in Seattle

Presented by to you by
Allan Kiplagat

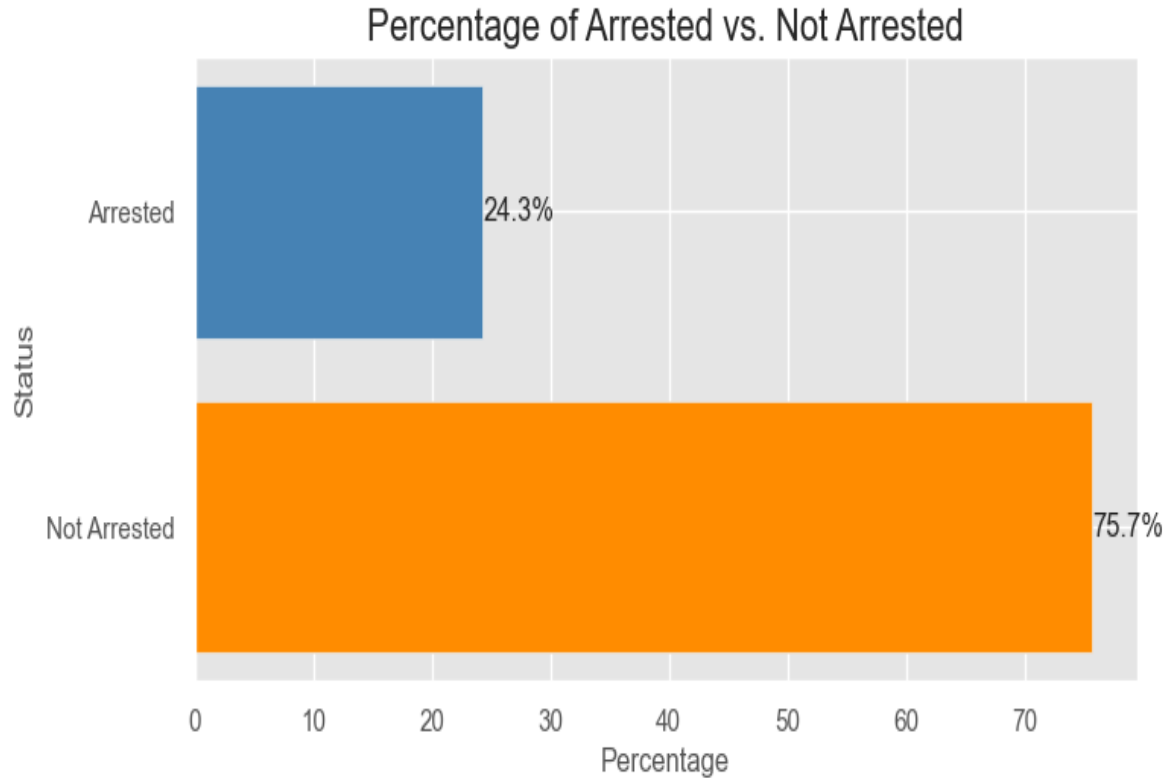


Exploring Arrest Data by Weapon Type and Age Group **Outcome:** Understanding weapon distribution by age group aids in targeted interventions.

Benefit: Enhances law enforcement efficiency and community safety measures.

Future Studies: Explore correlations between weapon possession, age, and other demographic factors.

Percentage of Arrested vs. Not Arrested

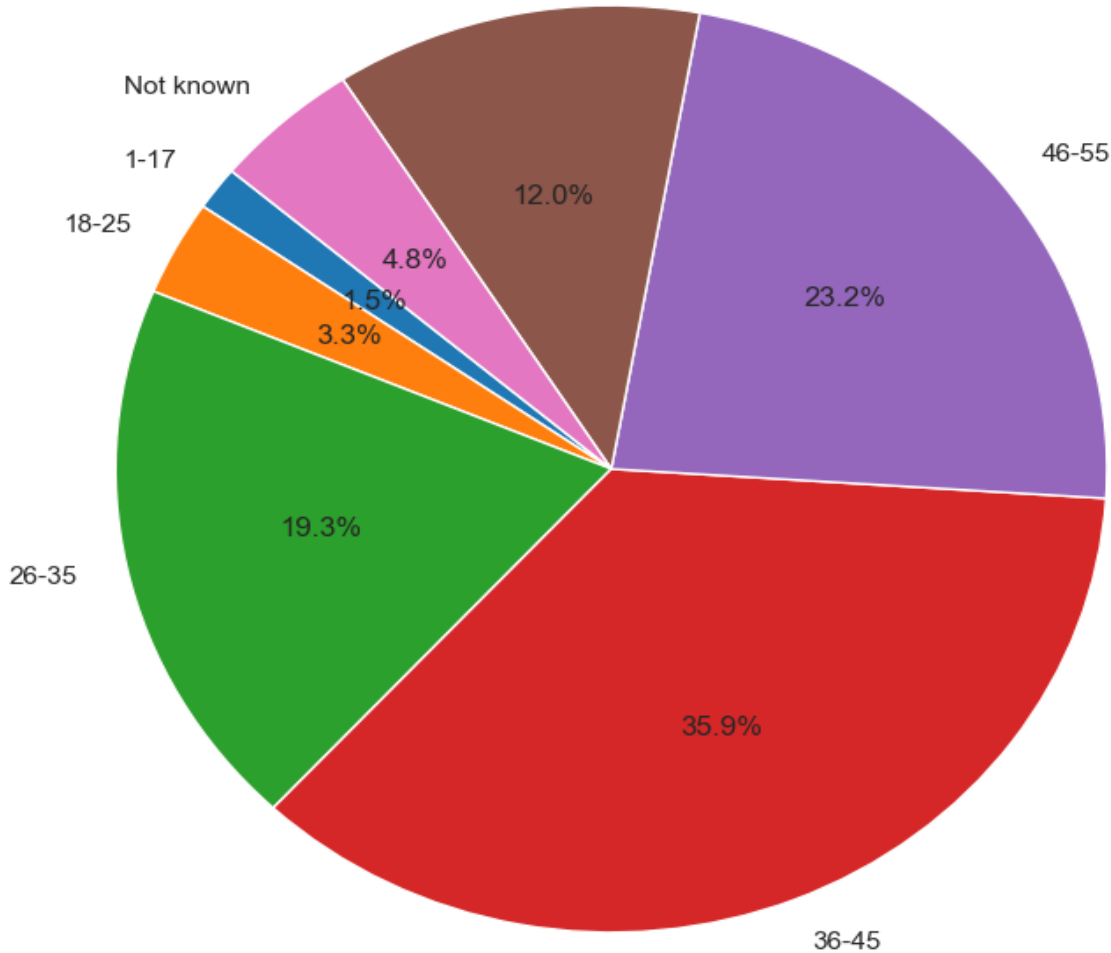


Slide Content:

- 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.

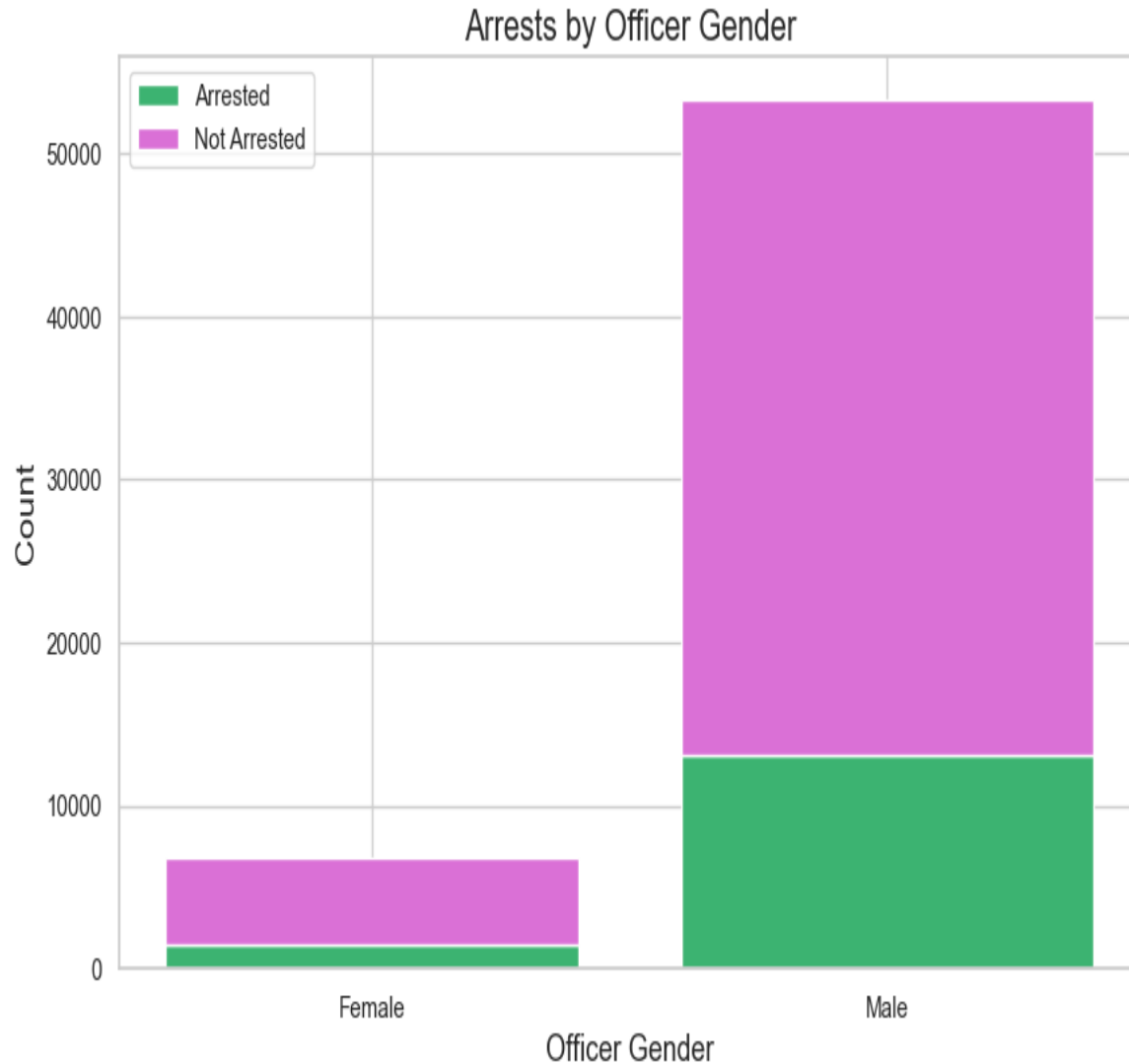
GUIDE: EDITING DATA IN THIS TEMPLATE

Distribution of Arrests by Age Bracket
56 and Above



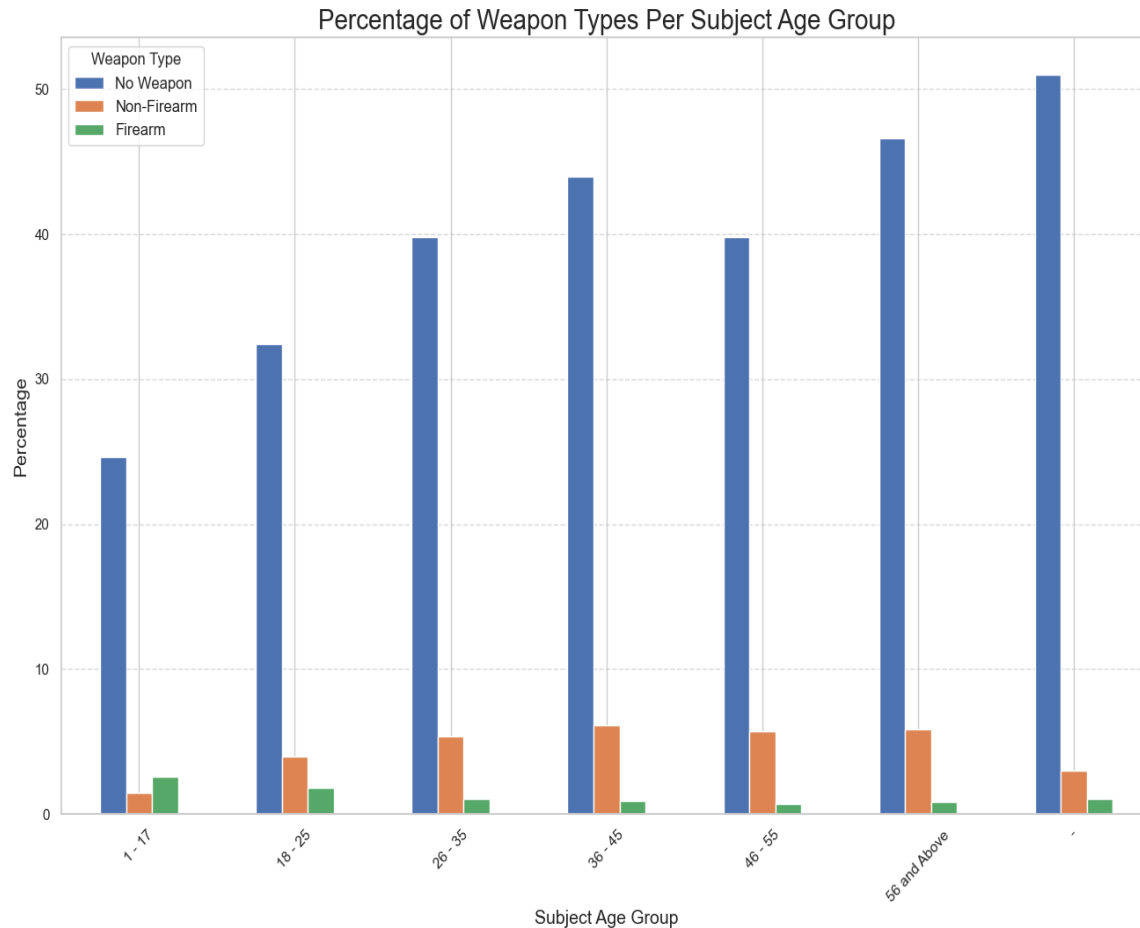
- We utilized matplotlib library to create a pie chart representing the distribution of arrests based on age brackets. Age ranges were defined from 1-17, 18-25, 26-35, 36-45, 46-55, 56 and Above, and -Not known. The data was grouped by subject age group, and the sum of arrests within each age bracket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

DATA DRIVEN



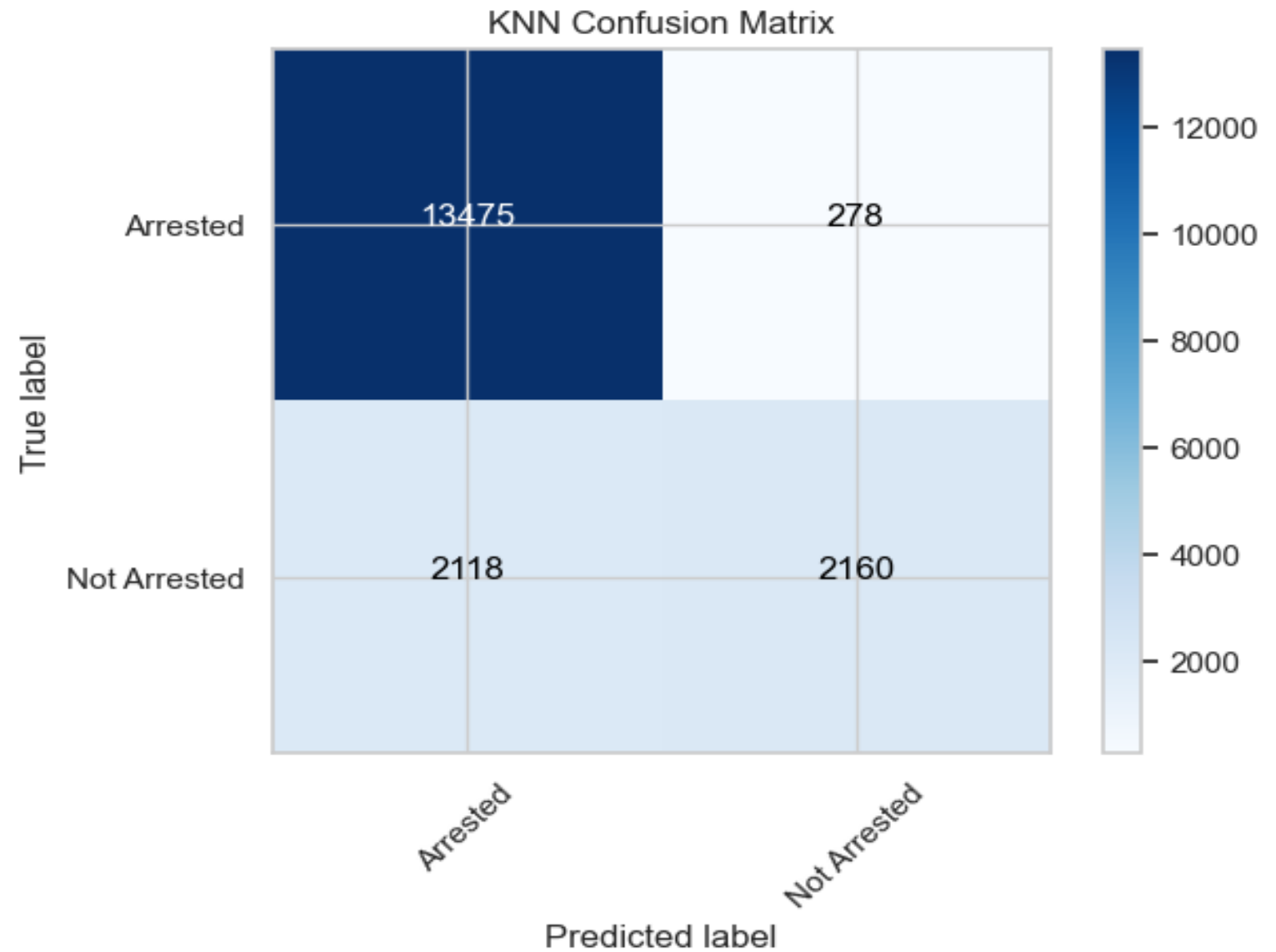
- Insight:** The analysis reveals that males are more likely to be arrested than females.
- Key Finding:** [Arrested Percentage]% of males in the dataset were arrested, compared to [Not Arrested Percentage]% of females.
- Implication:** This gender disparity in arrest rates highlights potential areas for further examination regarding law enforcement practices and societal factors influencing arrest outcomes.

Percentage of Weapon Types Per Subject Age Group

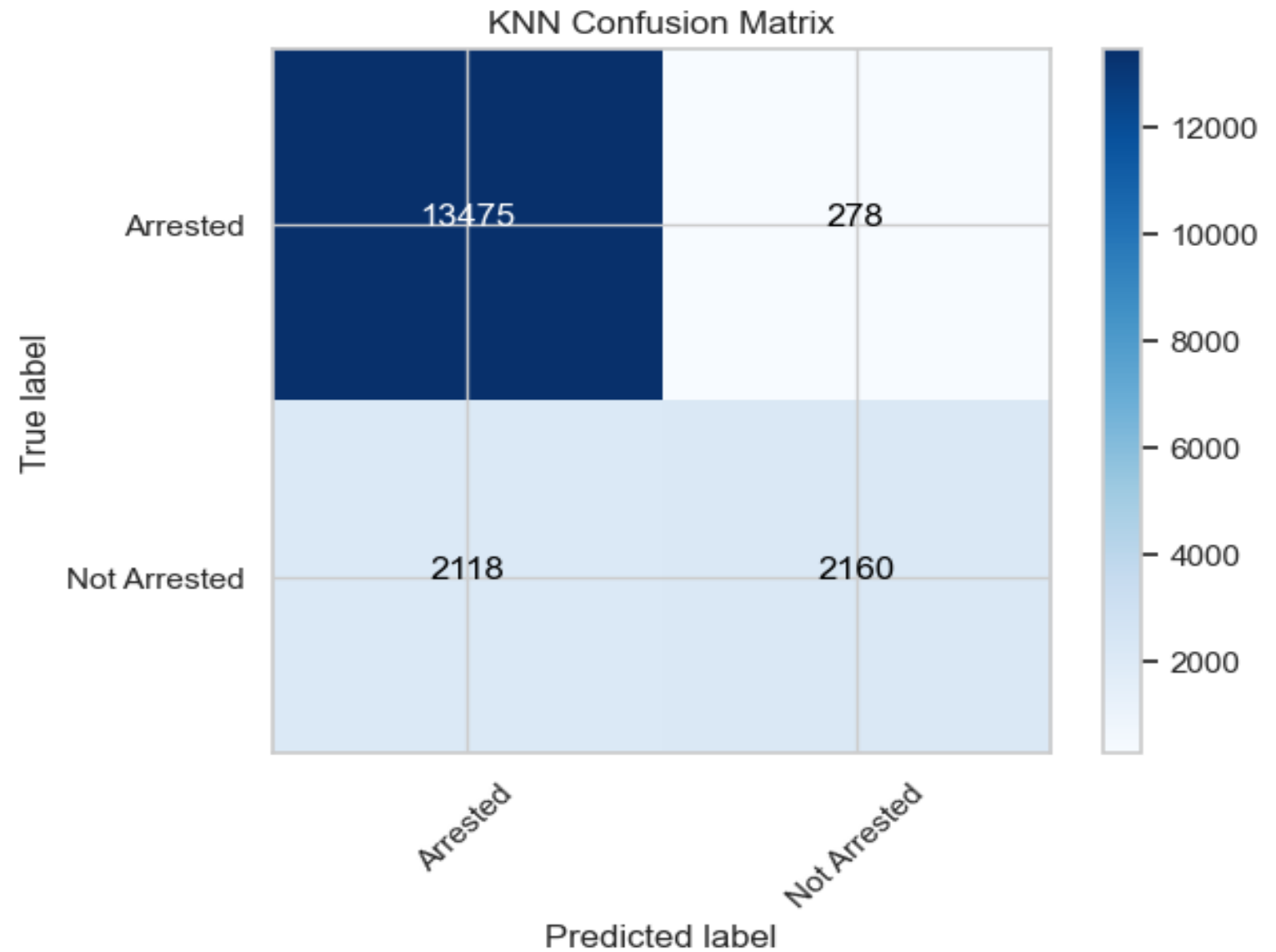


- Insert a bar chart showcasing the distribution of weapon types across different age groups.
- The horizontal axis represents age groups.
- The vertical axis represents the percentage of occurrences.
- age groups are labeled along the horizontal axis for clarity.
- The vertical axis is labeled "Percentage"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

K nearest

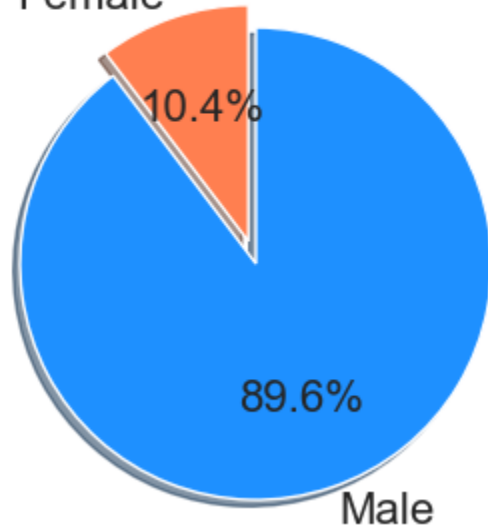


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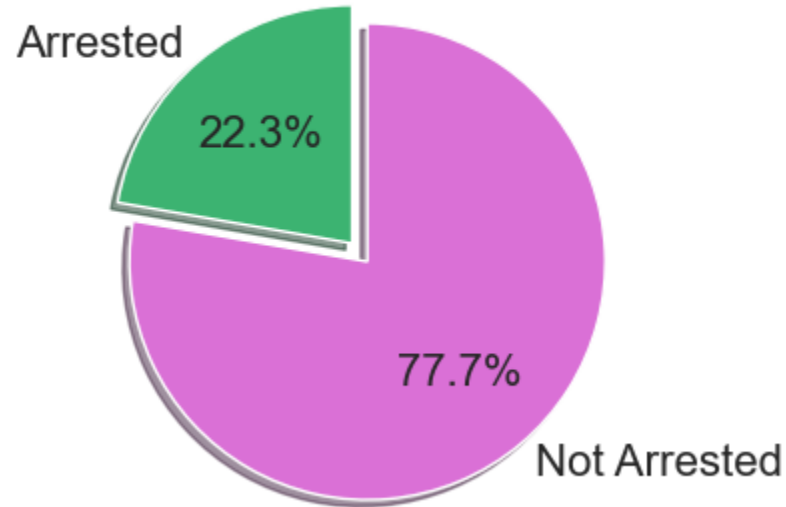


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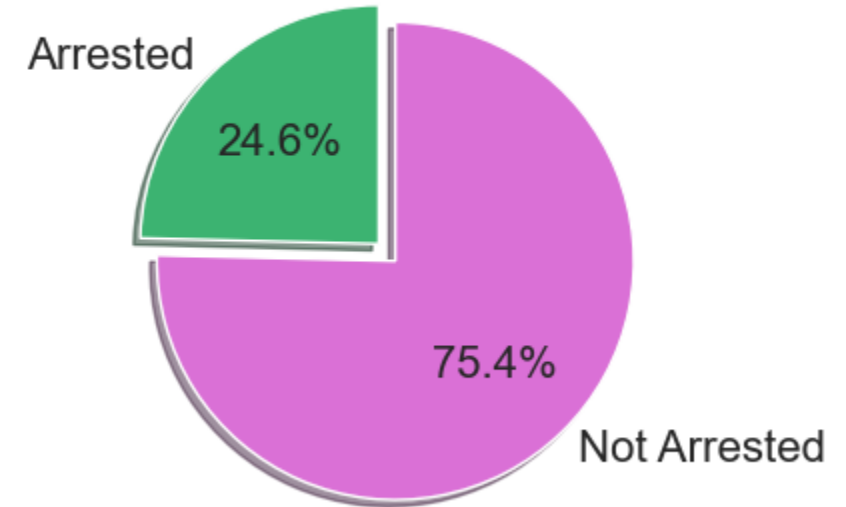
% of Arrests By Gender



% of Female Officer arrests



% of Male Officer arrests



- Total Arrest Distribution by Gender:**

- The pie chart indicates the overall contribution of female and male officers to the total number of arrests.

- Arrests by Female Officers:**

- Female officers account for a certain percentage of all arrests, with a portion of female officers involved in arresting individuals while others are not.

- Arrests by Male Officers:**

- Similarly, male officers contribute to a portion of all arrests, with some male officers involved in making arrests while others are not.



THANK YOU