

# An Analysis on Terry Stops in Seattle, WA

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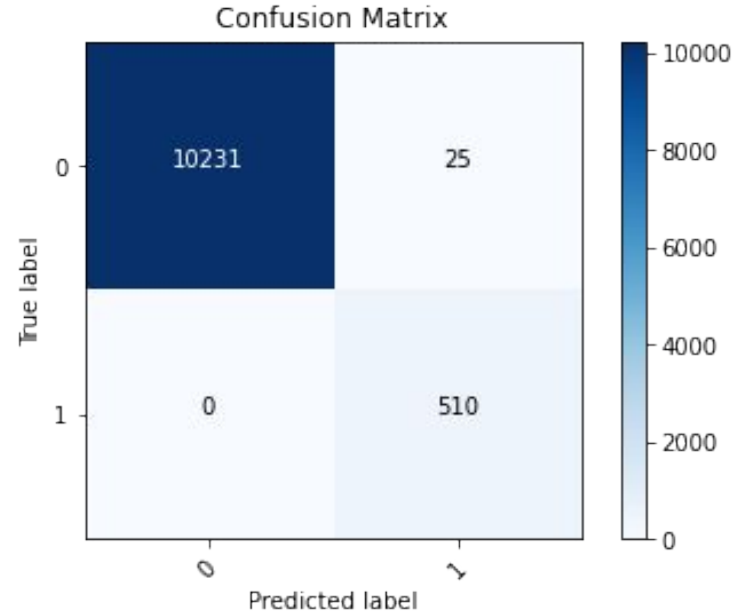
# Background

- **Background:** In **Terry vs. Ohio (1967)** the Supreme Court held that the search undertaken by the officer involved was reasonable because he “**acted on more than just a hunch**”, under the Fourth Amendment, which protects people against unreasonable search and seizure.

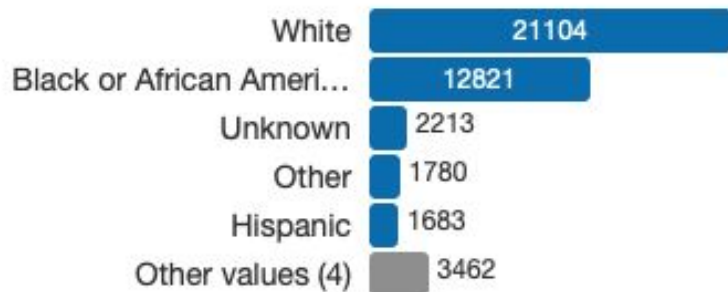


# Business Objective

- **Project Objective:** Build a (classifier) model to predict whether an arrest was made after a Terry Stop.
- **Model Performance:** Accuracy- 99.87%
- **Surprising Key Features:** “Year Reported”
  - **Mean Year, 2017- Seattle Times Top News Stories of 2017**
    - Immigrants use Washington state to sneak into Canada for asylum. Here’s how, and why.
    - Cellphones led investigators to one of the Northwest’s biggest poaching cases ever
    - Why don’t police enforce laws against camping in Seattle parks and streets?

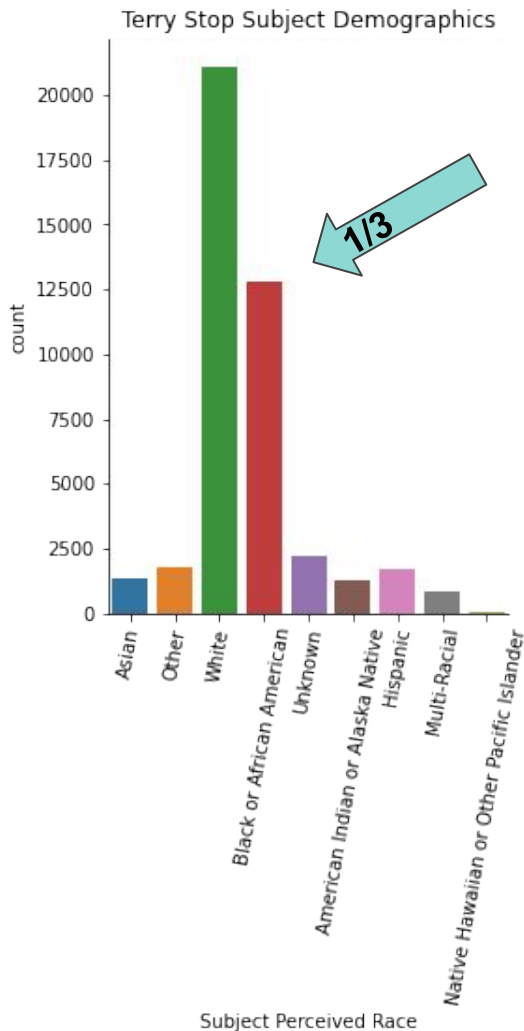


# Terry Stop Demographics vs. Seattle

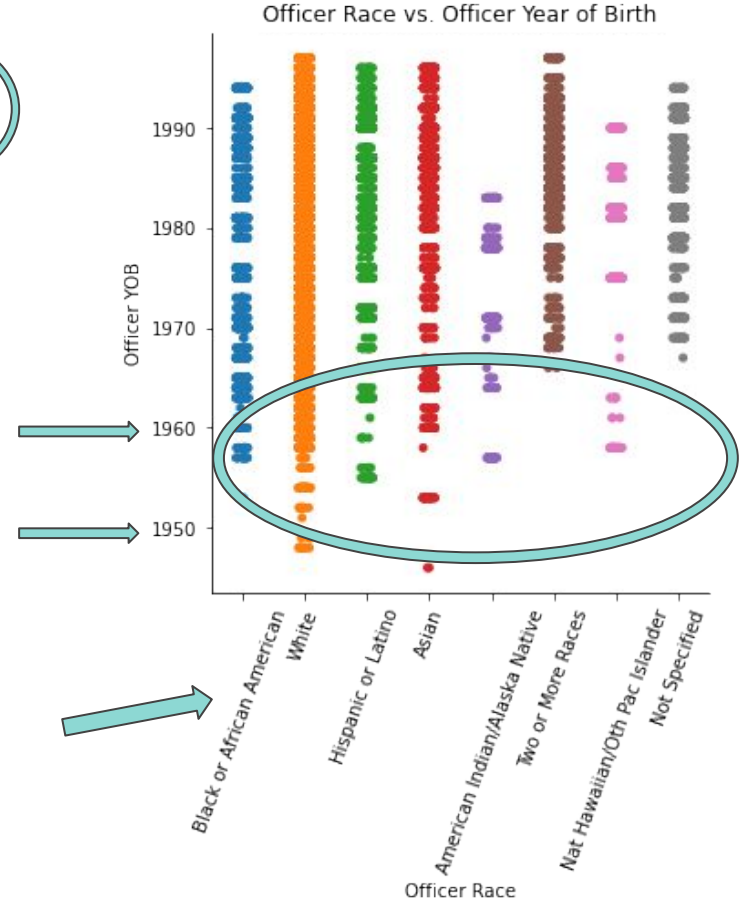
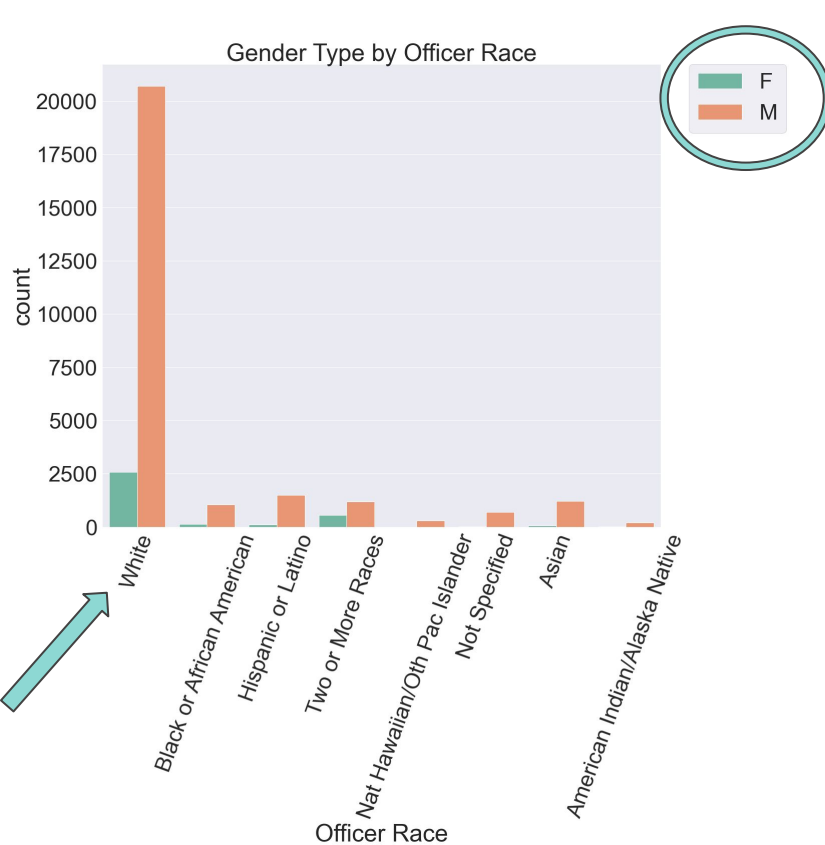


## Seattle Population

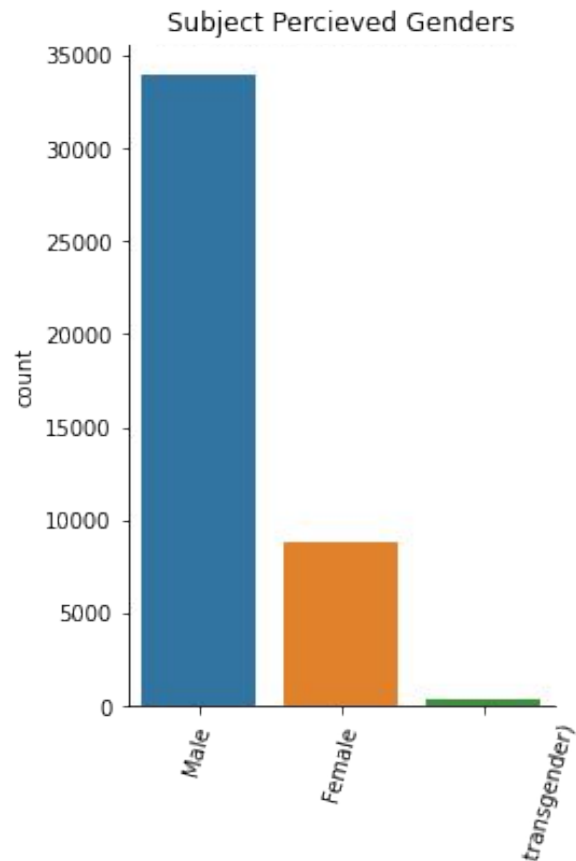
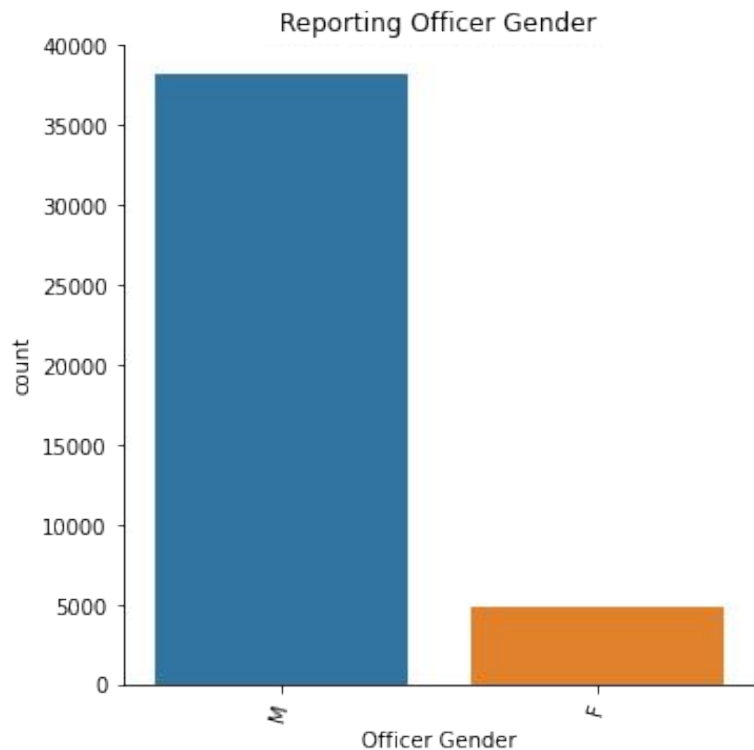
- **White:** 2,141,347 (70%)
- **Asian:** 382,880 (12.5%)
- **Black/African American:** 188,133 (6.1%)
- **2 or More:** 168,684 (5.5%)
- **Some Other:** 122,040 (4%)
- **Indigenous:** 29,194 (1%)
- **Pacific Islander:** 27,115 (0.9%)



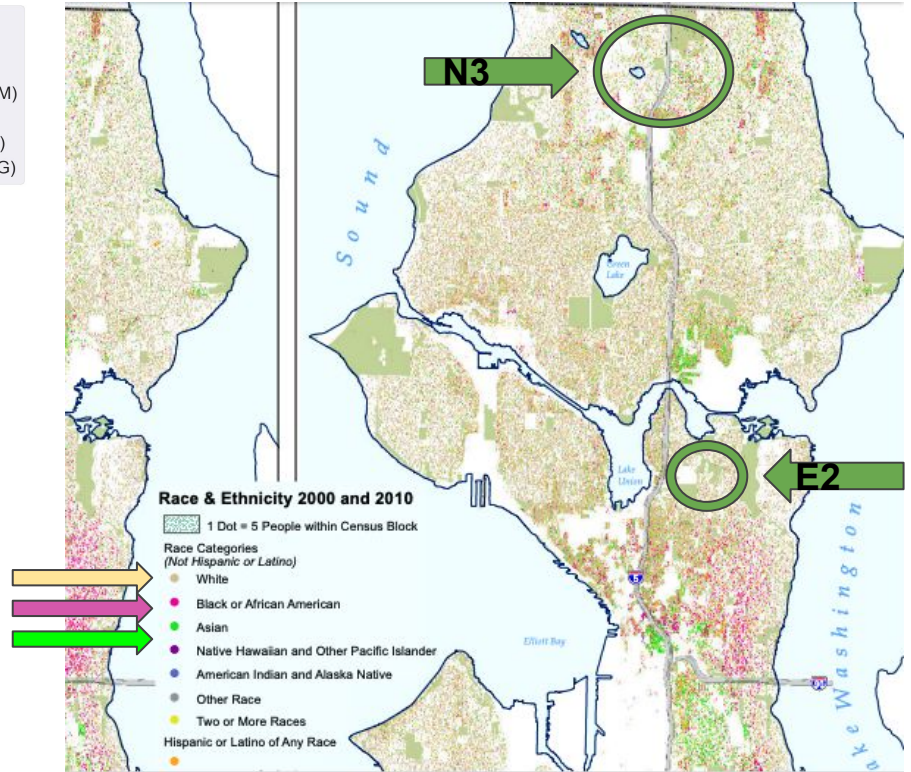
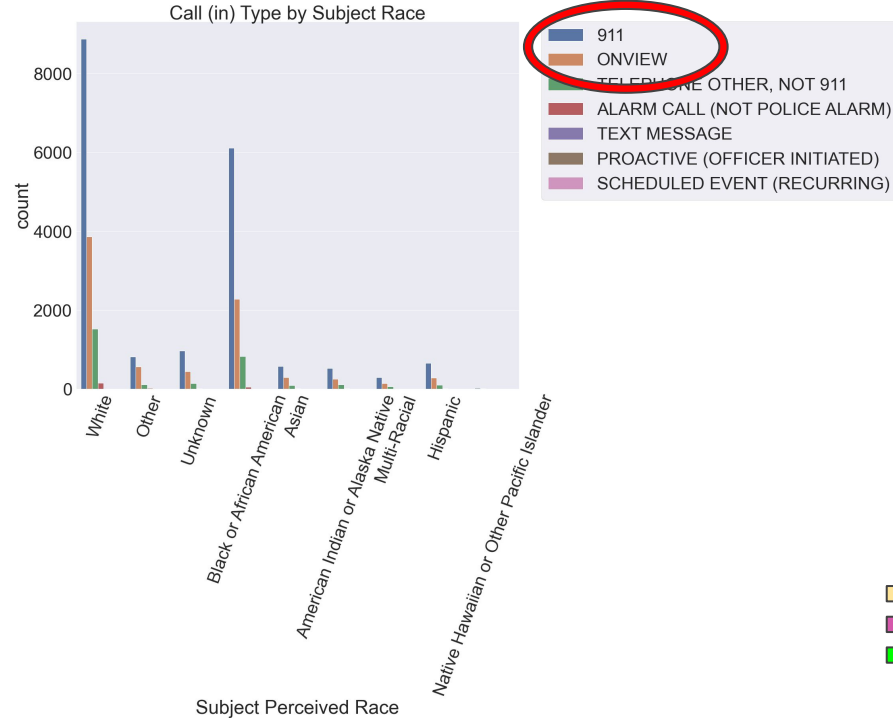
# Reporting Officer Demographics



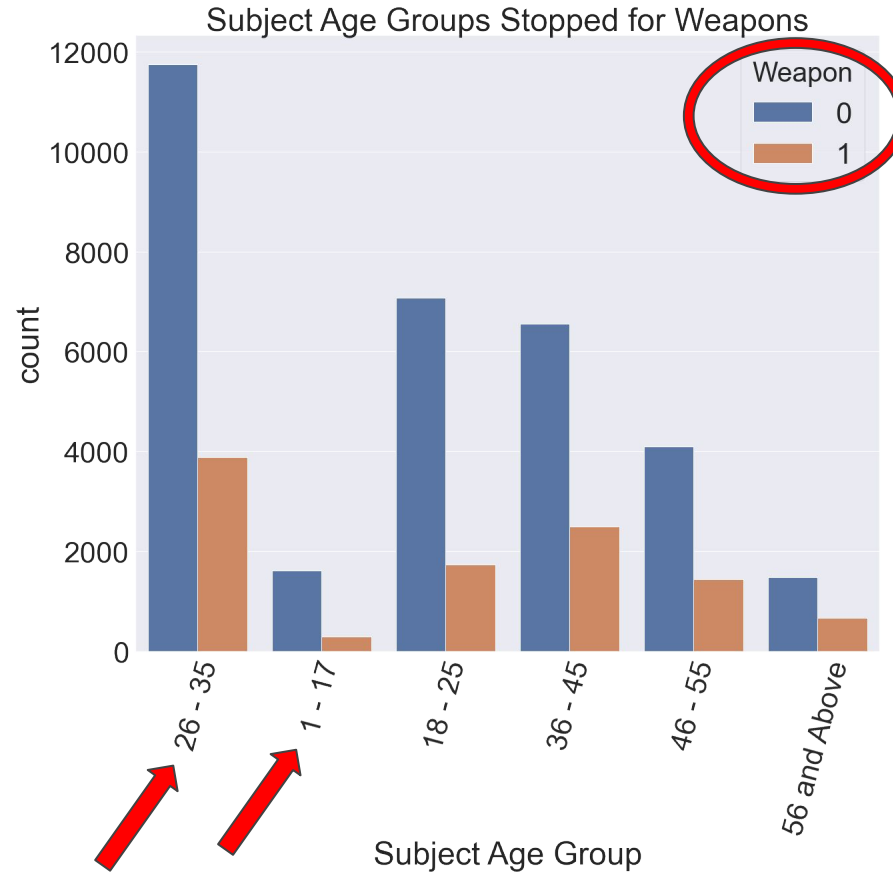
# Seattle Demographics



# "Trigger Words" that Influence Police Behavior



# Subject Age vs Seattle Weapon Owner Demographics







# Final Recommendations and ROI

## Recommendations:

- Recruit more minorities and women to be police officers and representatives of the law.
- Set a minimum age limit restricting access to ALL weapons for individuals under 21:
  - Restrict access to weapons to parents who have children under 18 in the home
- Enroll 911 dispatchers and officers in annual implicit bias training.
- Expand health plans, so that officers can have access to free therapy.
- Partner police officers with licensed counselors to deal with individuals with mental health issues and abuse victims, and to check officer biases in real time.

## ROI:

- The cost of these new measures will offset the costs of class action lawsuits for harassment & profiling, civil rights violations, and wrongful death suits.

# Future Work

- Collect more data on stops per Beat and Precinct.
- Gather data on subjects who had weapons, but had permits to carry.
- Collect and compare Terry Stop data in cities with police forces and cities that are predominantly People of Color.
- Have a wider discussion on how can laws be better crafted or avoided, so that minorities are not unfairly targeted.





Thank you