

# Terry-Stops Analysis

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PUBLIC-SAFETY

<https://data.seattle.gov/>

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# Data Understanding

The dataset source was from a website data.seattle.gov in a file named Terry stops

The data is grouped into categorical data which includes a record of:

- Subject Age Group
- Subject Gender
- Subject Race
- Officer Gender
- Officer Race

Frisk Flag  
Arrest Flag  
Stop Resolution

## ● Objective 1

- Build a classifier to predict whether an arrest was made after a terry-stop

## ● Objective 2

- Investigate whether there is any data that plays a role in making arrests

## ● Objective 3

- To evaluate and improve models used in predicting arrests

# MODELLING

	ACCURACY	F1 SCORE
Logistic Regression	91%	59%
Descicion Tree	91%	46%
Random Forest	91%	58%
XG Boost	92%	58%

## Conclusion

The different information affecting the arrest during the terry stops have made the models come together in harmony. Logistic regression and decision tree classifier were used to make the model predict the data which showed a 90% accuracy. There was some imbalance in the data due to some null values but were to be rectified by using ensemble methods.

Most of the classes were biased as leaning to one group of people i.e Male, White and Black American.



# Recommendations

- 01** Check on the male gender of the black American and White races
- 02** Collect information on the reasons for Arrest to have better understanding of arrests
- 03** Calculating over the population to get a sense of how the different parameters are affected



TERRY-STOPS  
ANALYSIS

THANK YOU

MORINGA SCHOOL

TECHNICAL MENTORS

FELLOW COLLEAGUES