

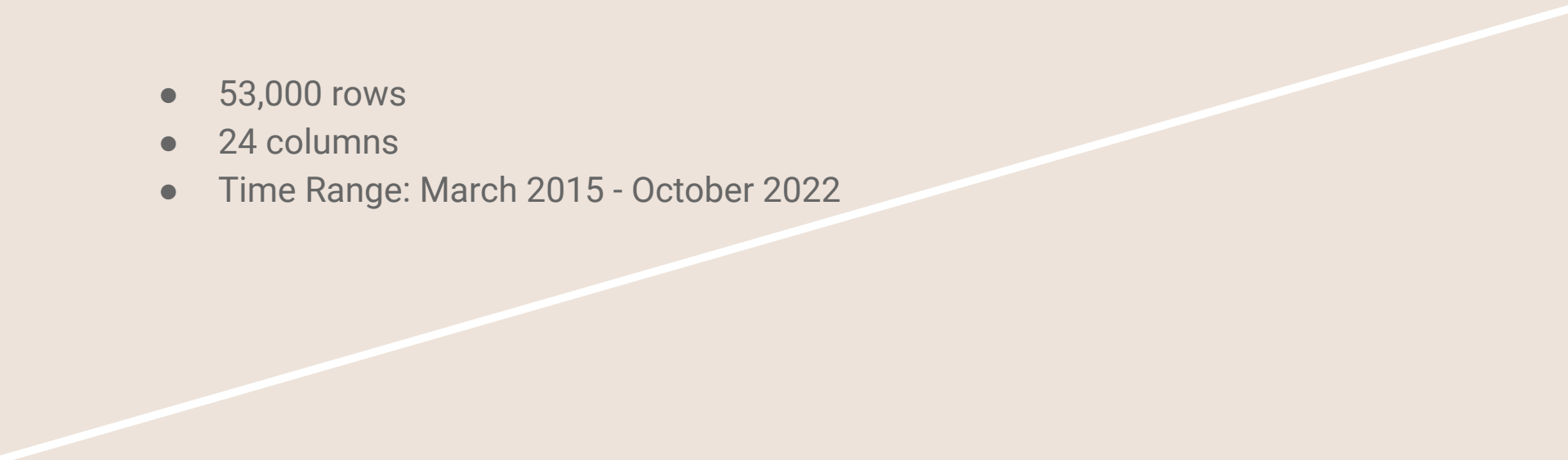
Predicting Arrests using Terry Stops Data

Cassidy Exum, Flatiron School

Goals

- Investigate Terry Stop Data from the SPD
- Determine if prediction is possible
- Recommend how to further investigate police violence

About The Data

- 53,000 rows
 - 24 columns
 - Time Range: March 2015 - October 2022
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Ethical Concerns and Notes Regarding Results

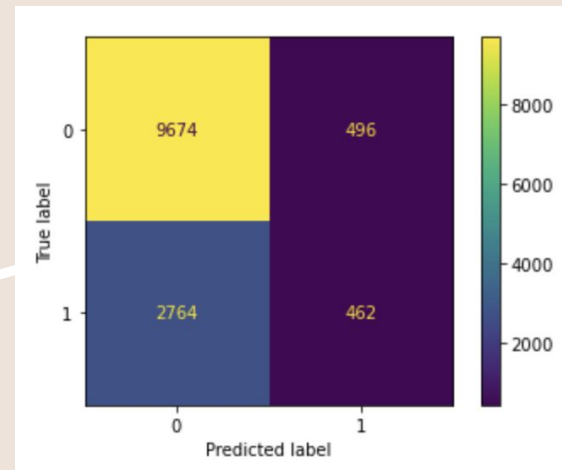
Ethics

- Non important identification features were excluded

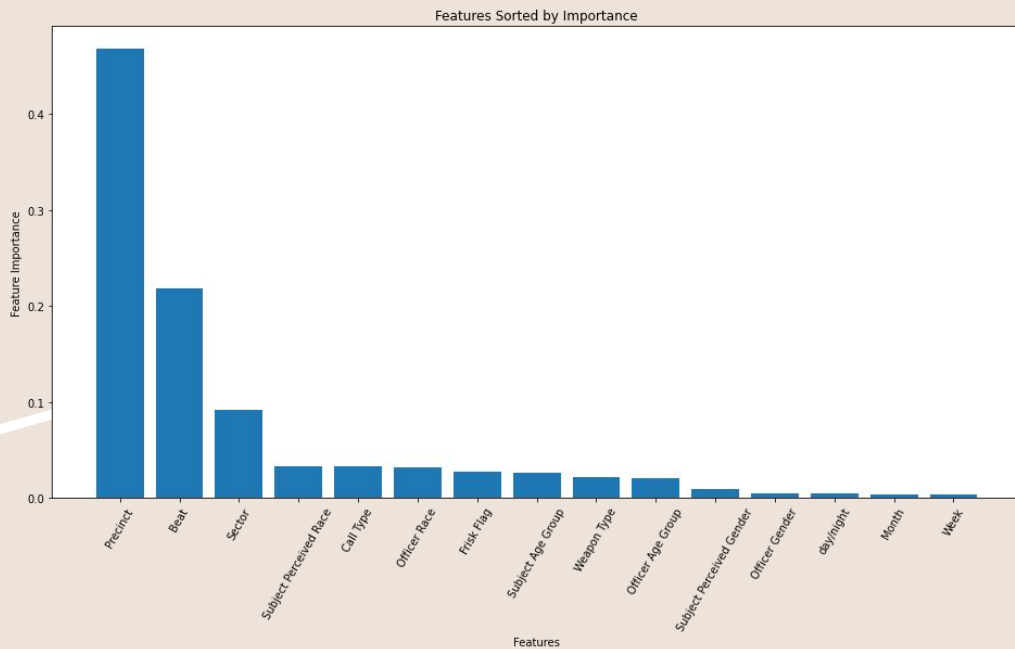
Results information

- ML in this context
- Arrest Flag Feature

Modeling and Evaluation



XGBoost Feature Importance



Recommendations and Next Steps

- Further research into location and policing is required
- Obtain Census Data for race, gender, income, and location intersection
- Study Link:
<https://now.tufts.edu/2020/06/17/how-racial-segregation-and-policing-intersect-america>
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