Washington Community Action Network

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iD10t Team

Business Problem

➔   Explore how Terry Stops affect Minority communities

➔   Create predictive model as basis for your quick response app

➔   Provide actionable next steps

Outline

The Data

Seattle.gov Terry Stops Database

Unique entries for each Terry Stop made between 2015 and 2022 reported by SPD.
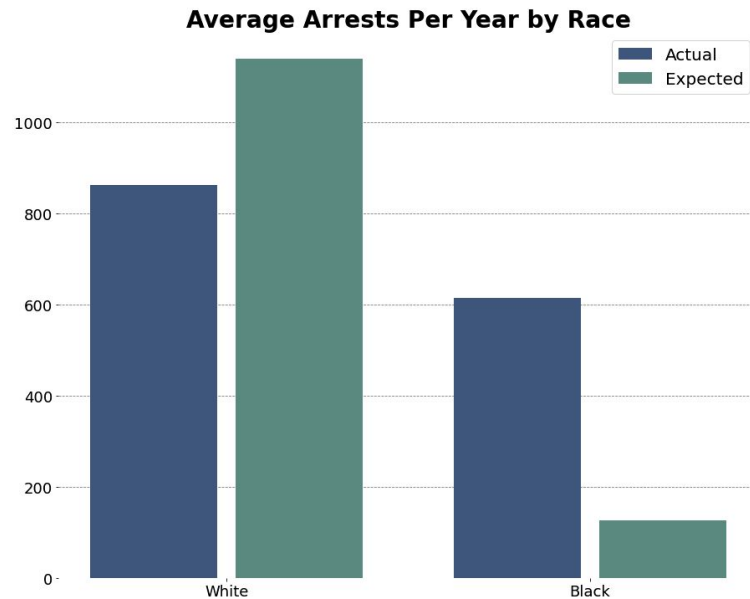
The Problem

Problem statement

Terry stops target minorities and lead to disproportionate arrests.

Through predictive algorithms can we prove there is a systemic formula.

Supporting information

01

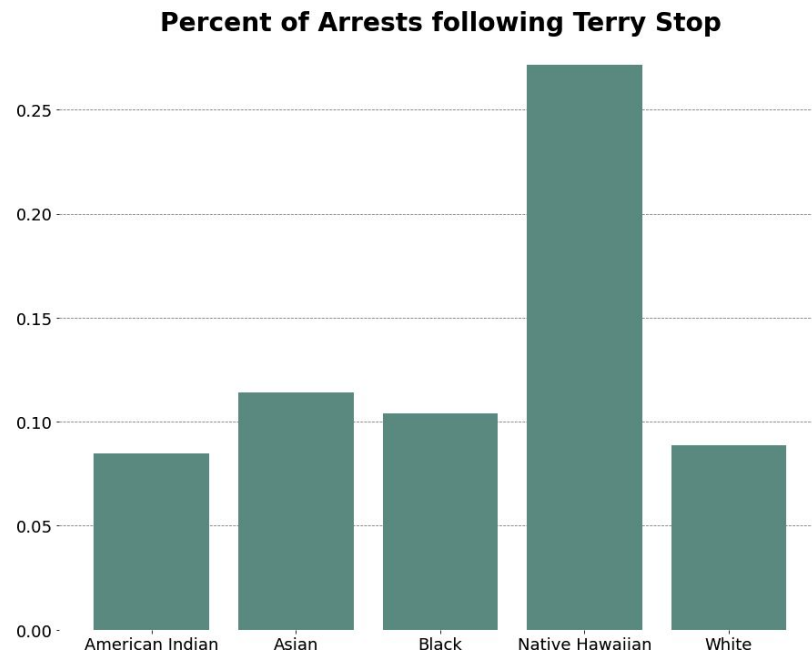Graph created through US Census data and SPD Terry Stops database.

Average Arrests Per Year by Race

Supporting information

02

Compiled using SPD Terry Stops database.

Percent of Arrests following Terry Stop

Next Steps

What next?

➔   Create our own Dataset

➔   Gather Information that tells our story

➔   Reexamine our Business Problem

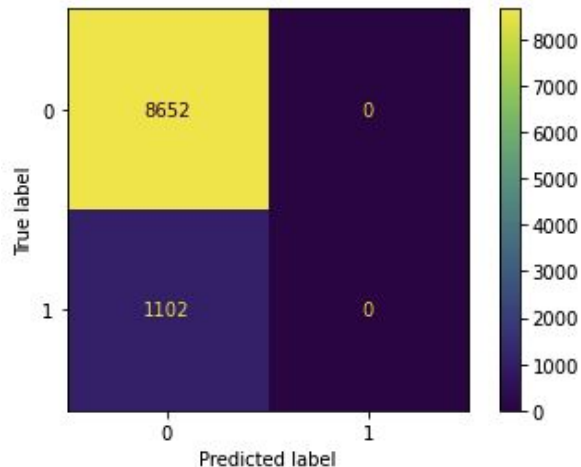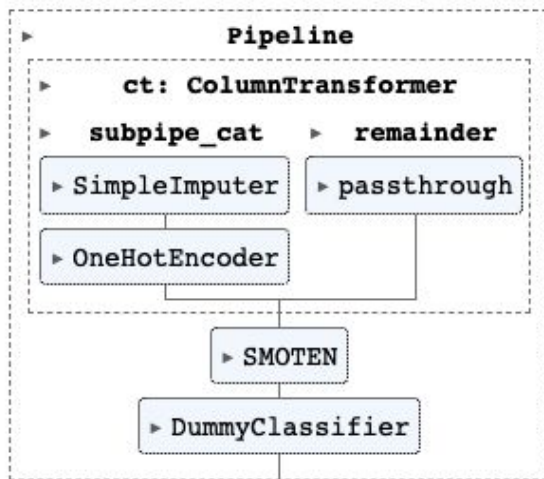# Questions?

Contact

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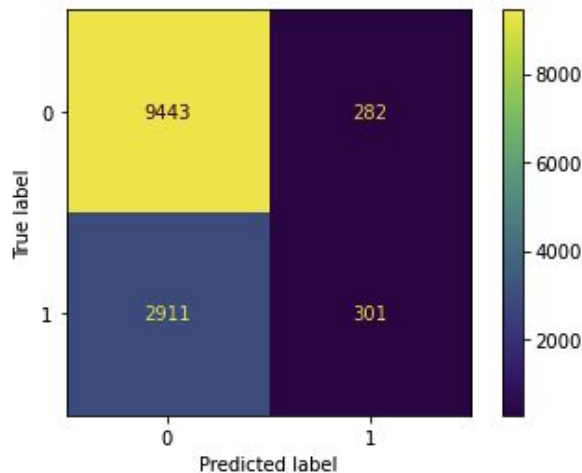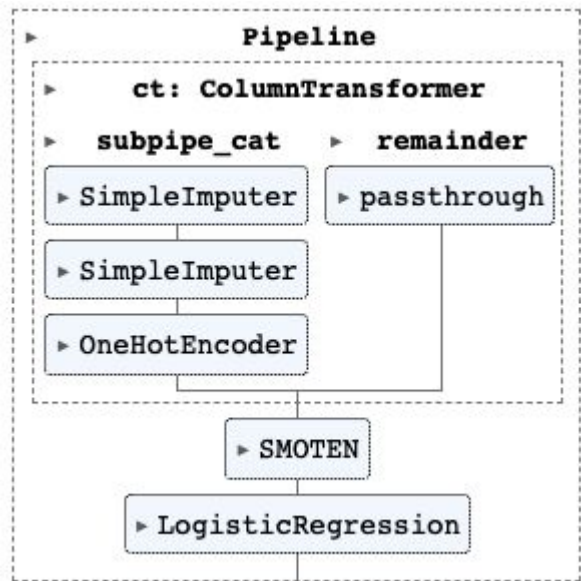# Appendix 1 (Dummy Model)

Our model's accuracy on the test set is 0.89.

Our model's recall on the test set is 0.0

Our model's precision on the test set is 0.0

Our model's f1-score on the test is 0.0.

Appendix 2 (Logistic Regression)

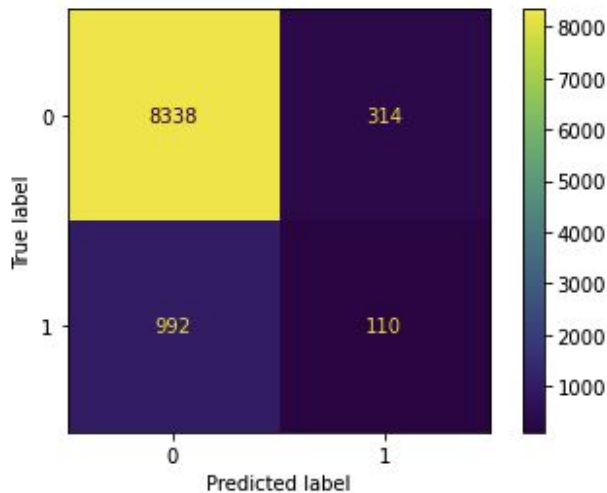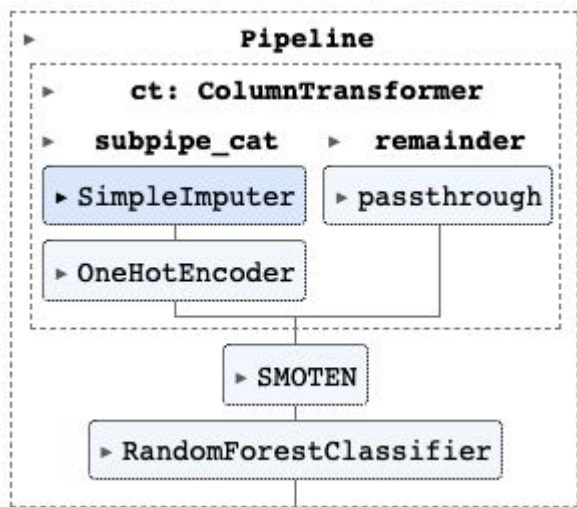|	Predicted 0	Predicted 1
True 0	9443	282
True 1	2911	301

Our model's accuracy on the test set is 0.75.

Our model's recall on the test set is 0.09

Our model's precision on the test set is 0.52

Our model's f1-score on the test is 0.16.

Appendix 3 (Basic RFC)

Pipeline

ct: ColumnTransformer

subpipe_cat ▶ remainder

▶ SimpleImputer ▶ passthrough

▶ OneHotEncoder

▶ SMOTEN

▶ RandomForestClassifier

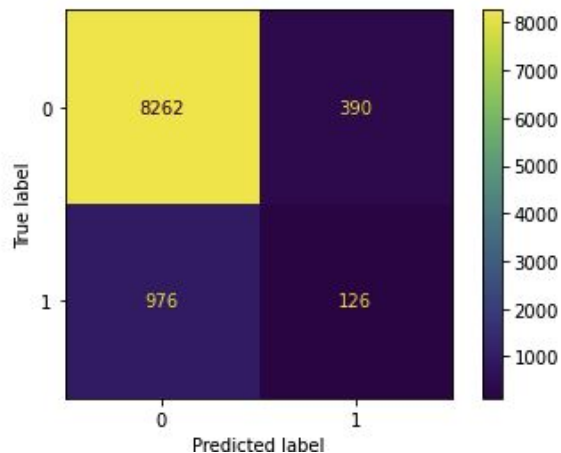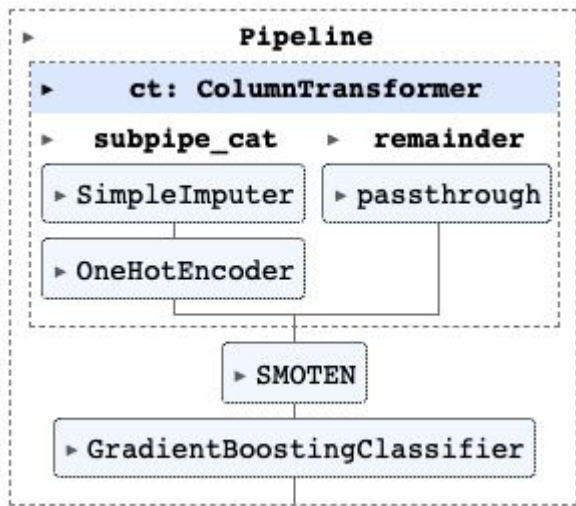|	0	1
0	8338	314
1	992	110

Our model's accuracy on the test set is 0.87.

Our model's recall on the test set is 0.1

Our model's precision on the test set is 0.26

Our model's f1-score on the test is 0.14.

Appendix 4 (Basic GBC)

Our model's accuracy on the test set is 0.86.

Our model's recall on the test set is 0.11

Our model's precision on the test set is 0.24

Our model's f1-score on the test is 0.16.