Chicago Car Accidents Analysis

Justin Lee

Overview

Analyst: Justin Lee

Stakeholder: Vehicle Safety Board of Chicago

Motive: Aims to understand the primary contributory causes of a car accident in order to reduce traffic accidents.
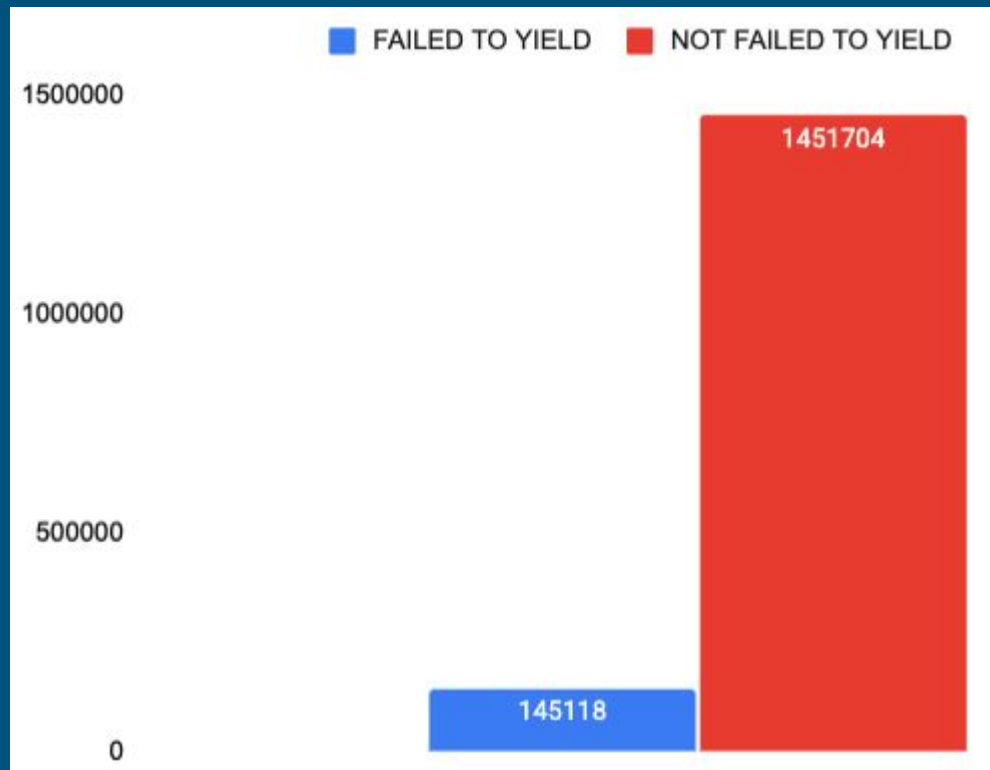
Data Understanding

Training set

- 1,604,701 rows
- 61 columns

Test set

- 401,176 rows
- 61 columns

Class Imbalance

Baseline -> Resampled

Accuracy	92.76% -> 29.73%
True Negatives (TN)	372,149 -> 90,673
False Positives (FP)	281,479
False Negatives (FN)	398
True Positives (TP)	28,626
Precision	0.67 -> 0.09
Recall	0 -> 0.99
F1-Score	0 -> 0.17

Next Steps

03

Increase Penalties for
Failure to Yield

**Launch Targeted Public
Awareness Campaigns**

01

02

**Implement More Effective
Traffic Control**
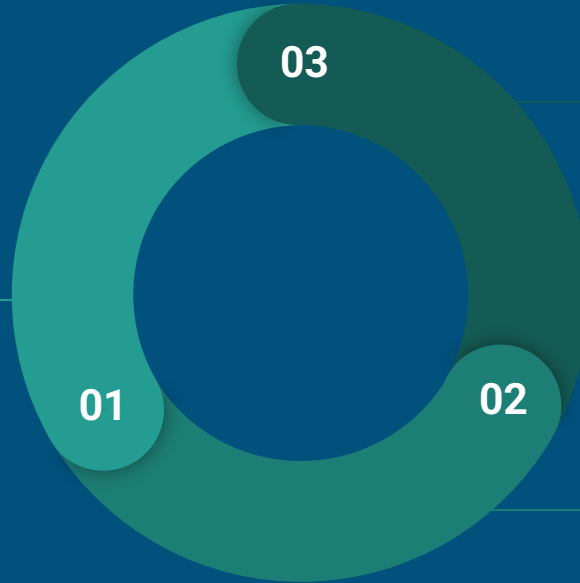
Contact Information

Justin Lee

Email: jlee8150@gmail.com

LinkedIn:
https://www.linkedin.com/in/justinlee2023/