## **Austin Bicycle Accident Property Damage High-Low Prediction**

Based on about 2,500 bike crash records from Austin, this program uses a logistic regression model to predict the level of property damage caused by traffic accidents, and predict whether the property damage will be higher than \$1,000.

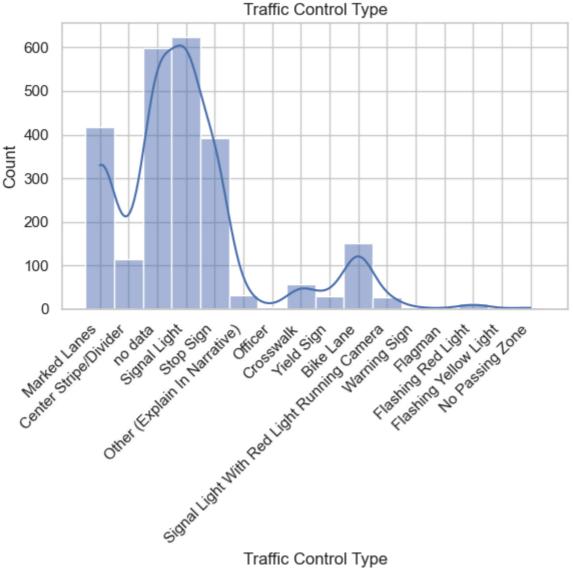


**Image Caption** 

## Top factors associated with bike crashes in Austin

According to the comparison between EDA and the three models, among the 12 features, "Traffic Control Type" and "Speed Limit" are the two main causes of bicycle accidents.

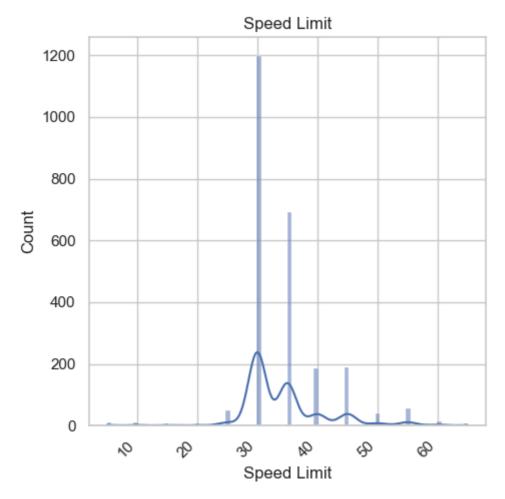
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Traffic Control Type

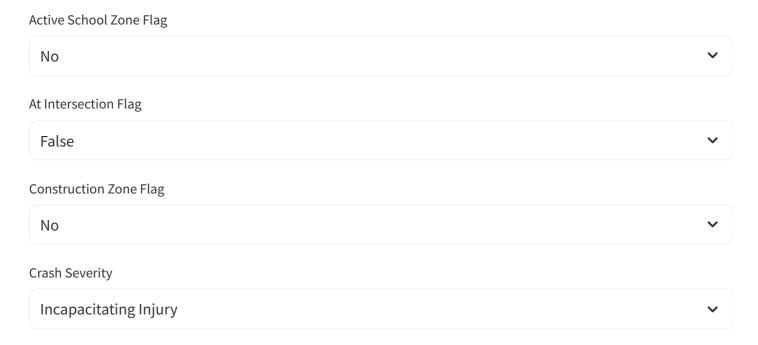
Distribution of the number of accidents by traffic control type

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Distribution of the number of accidents by speed Limit

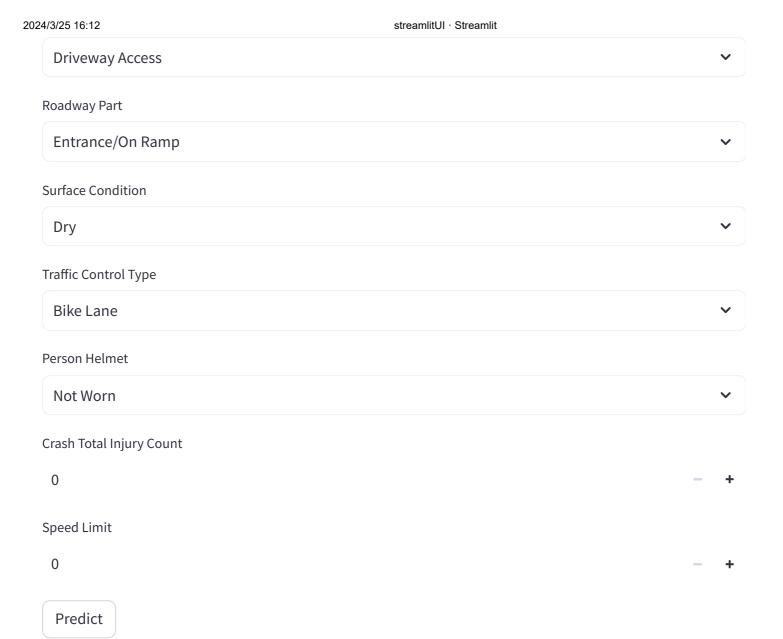
## Logistic regression model prediction, accuracy 73%



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Intersection Related



## **Prediction:**

\$1000 Damage to Any One Person's Property:

**Greater chance of property damage less than \$1,000** 

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