



# **Terry Stops/ Stop, Search, and Frisk**

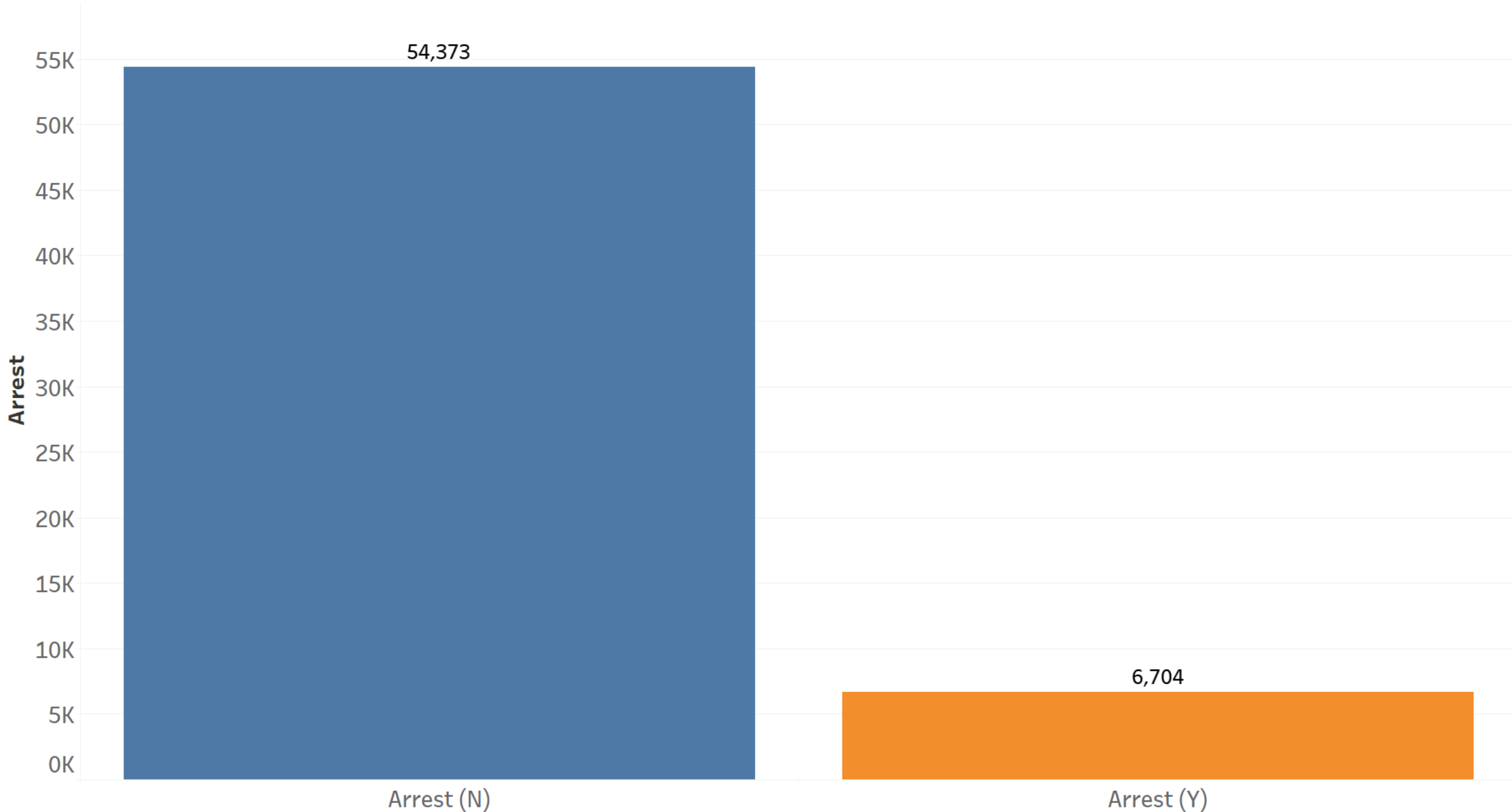
Orangel Mendez

# Business Problem

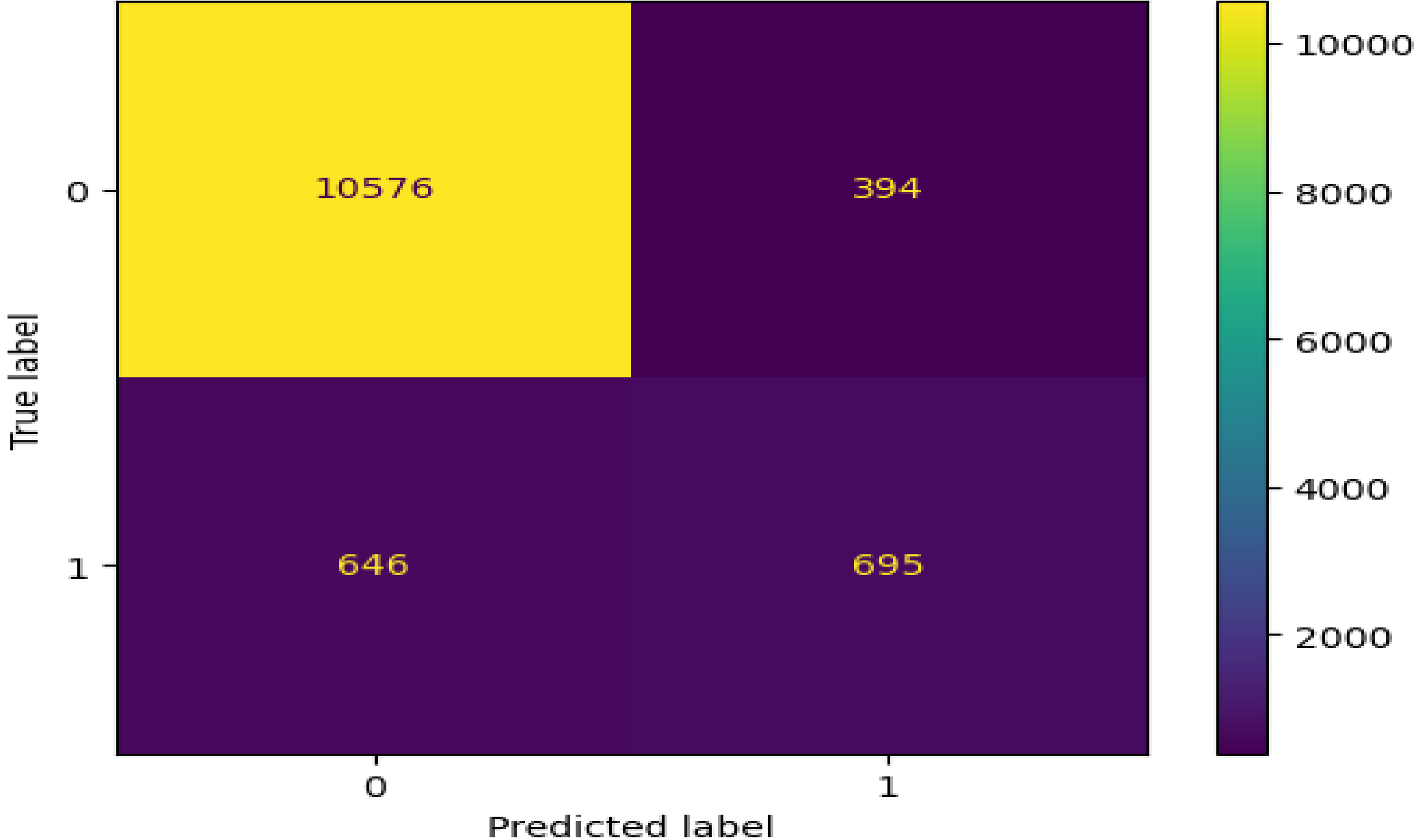
Creating a model where it records an arrest is being made following a Terry stop.

- Analyze data from Terry stops in Seattle
- Determine best predictors that lead to arrests from a Terry stop
- Make recommendations to improve the outcome

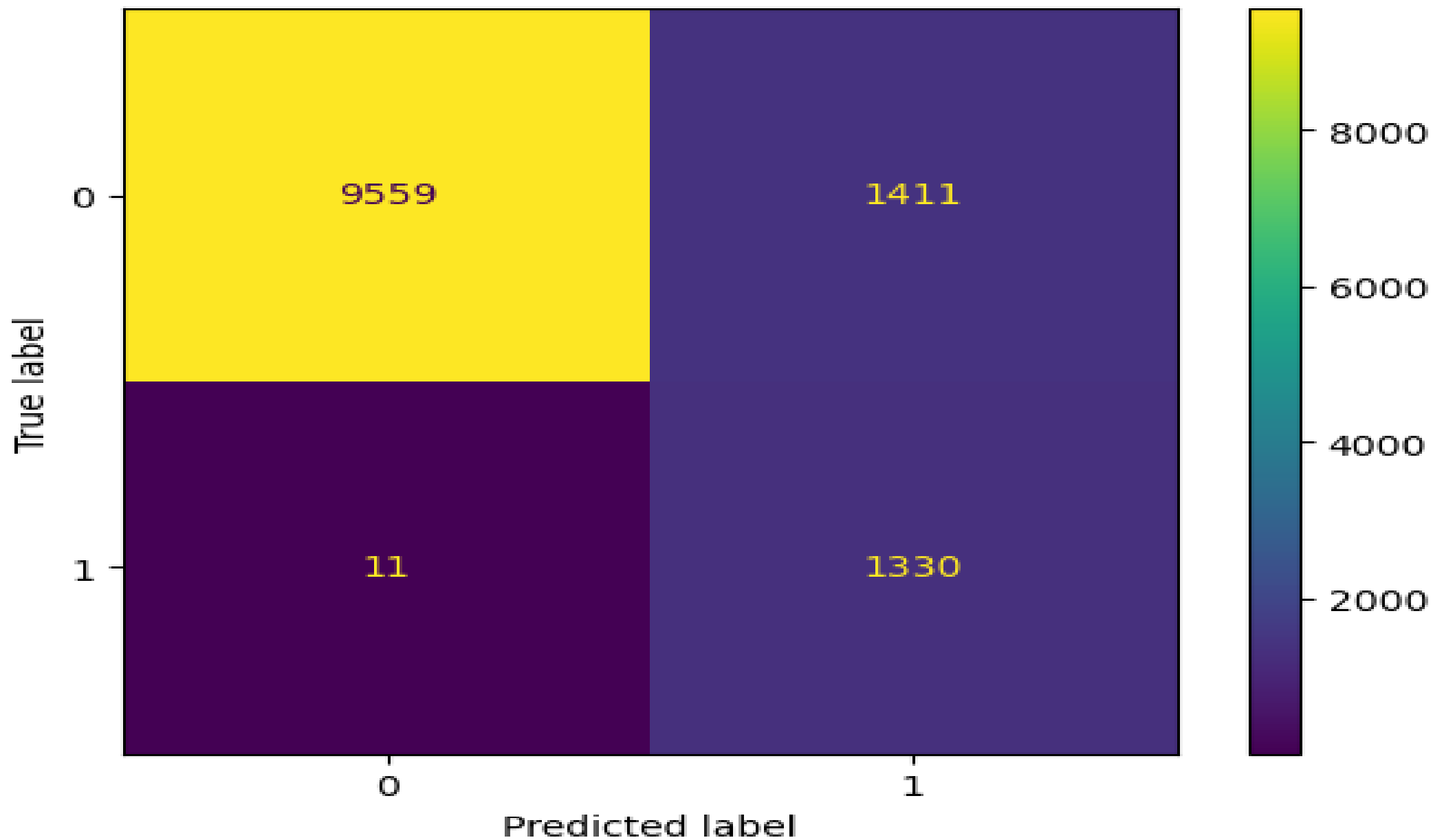
Distribution of Arrests made



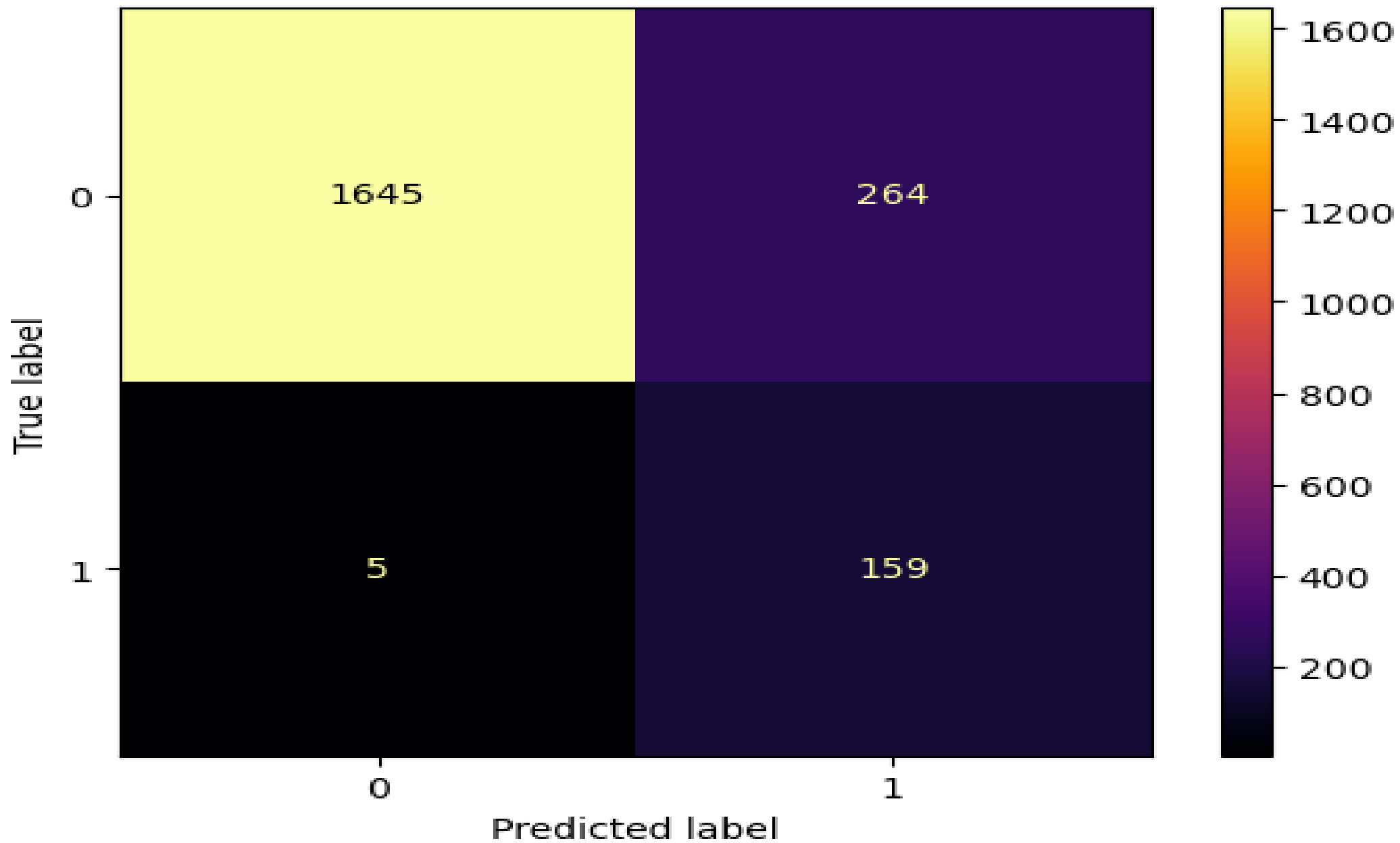
# Baseline Model (Logistic Regression)



# Decision Tree Classifier Model



# Final Model





# Next Steps:

- Compared to the initial logistic regression model. The model performance overall is doing well when determining a frisk and arrests were made from a stop.
- The recall score can predict the correct instances of arrests.
- Improving data collection, accurately recording incidents, and refining the model with additional data. This will help the model's performance for future reference.



# Conclusion

- The model overall, is able to predict instances where a stop has led to an arrest.
- Although some instances provided arrests that shouldn't occur. The overall goal was to accurately predict how these stops were performed.