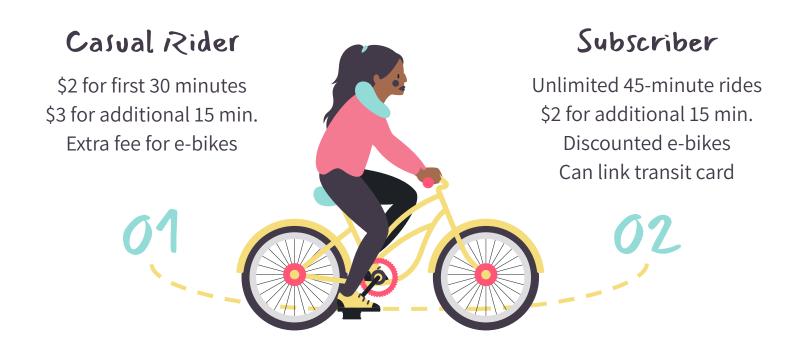


Bike Share Subscriber or Casual Rider?

Matt Ranalletta

Two Types of Users





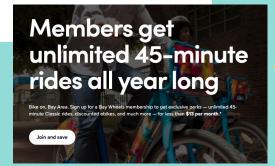
Main Goal

Identify casual riders and turn them into subscribers.

Say hello to your new ride, Bay Wheels.













Data Sources



Lyft Bay Wheels

Ridership data



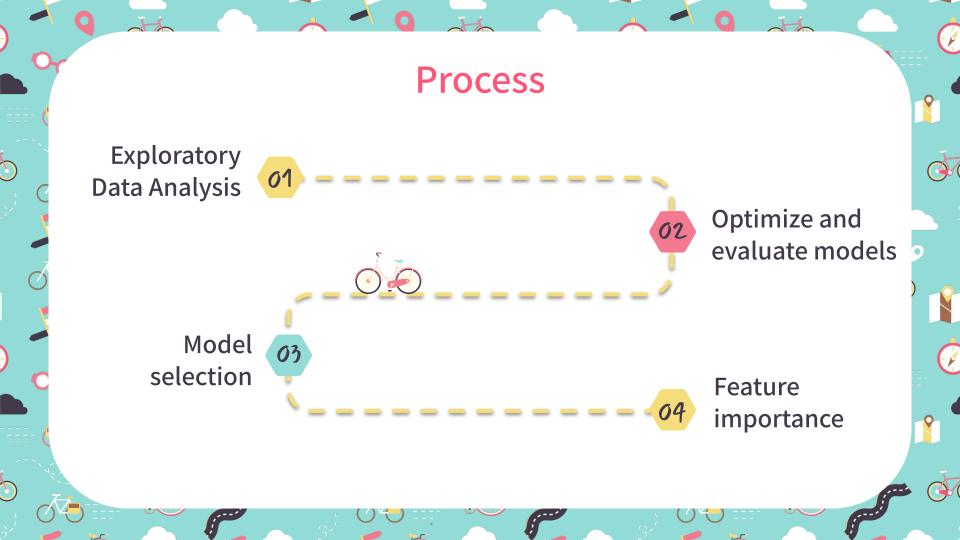
GBFS

Station data



U.S. DOT

Transit connection data



Classification Algorithms

KNN

Logistic Regression **Decision Tree**

Random Forest

Naive Bayes

XGBoost

Classification Algorithms

KNN

Logistic Regression **Decision Tree**

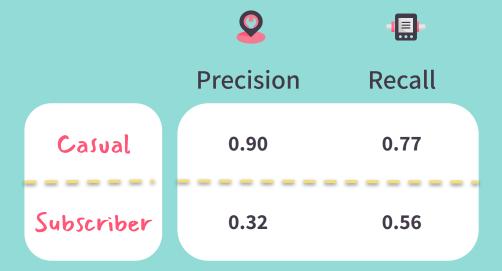
Random Forest

Naive Bayes

XGBoost



Classification Metrics









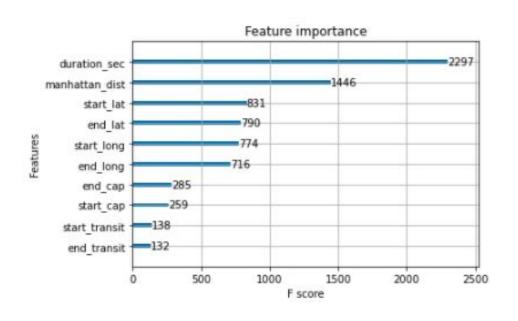
Classification Metrics



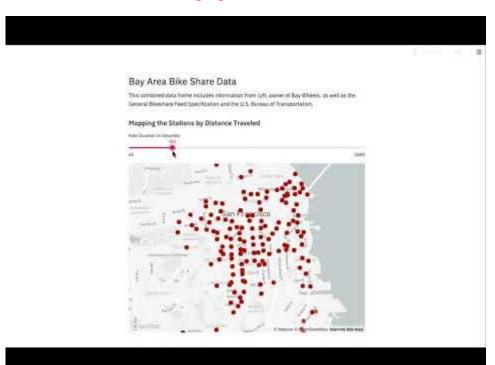




Classification Metrics



App Demo



Make predictions from user input Duration (seconds) 2000 Start Latitude 37.36 End Latitude 37.77 Start Longitude -122.42 End Longitude -122.51 Start Transit 2 End Transit 0 Start Station Bike Capacity 15 End Station Bike Capacity 15 Predicted Type: Customer

Improvements



Time Data

Consistent start and stop data



Web App

More useful for less technical users



Thank you!

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