Motorcycle Price Prediction

Presentation Outline

- Purpose of Analysis
- Data and method
- Results
- Future steps

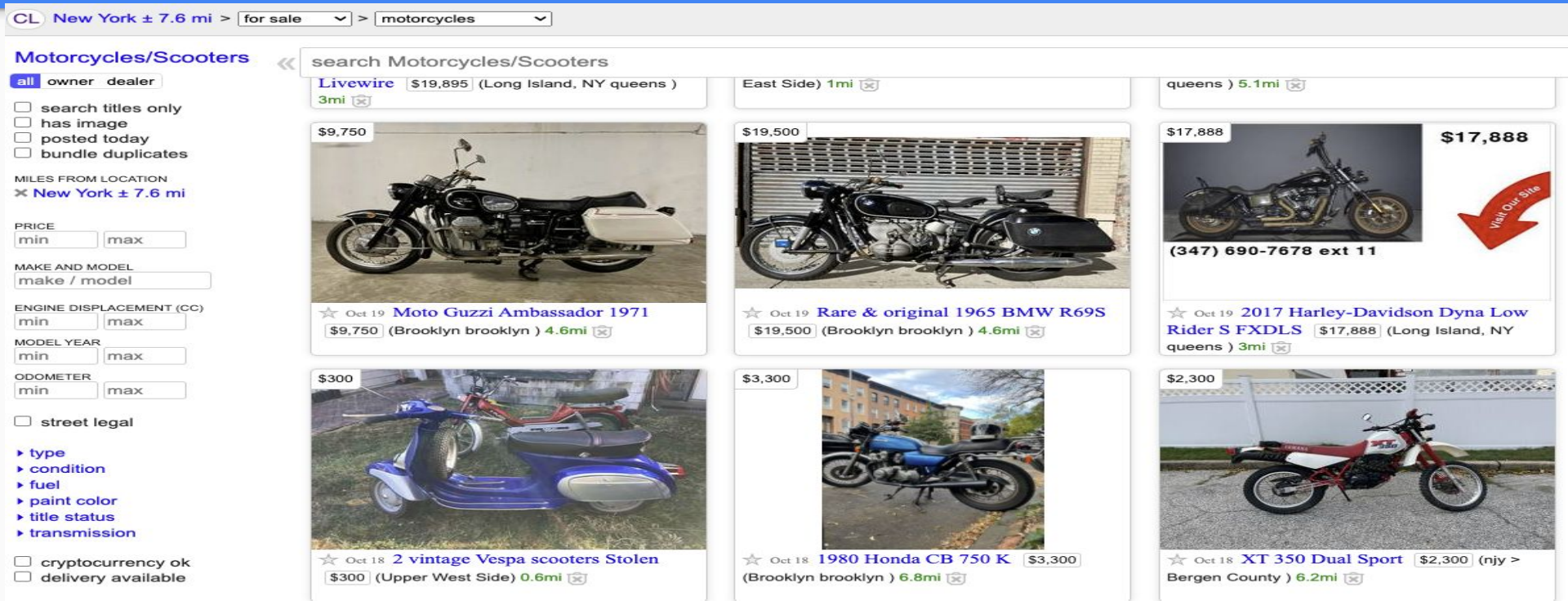
Purpose of Analysis

Predict motorcycle prices in an unregulated secondary market

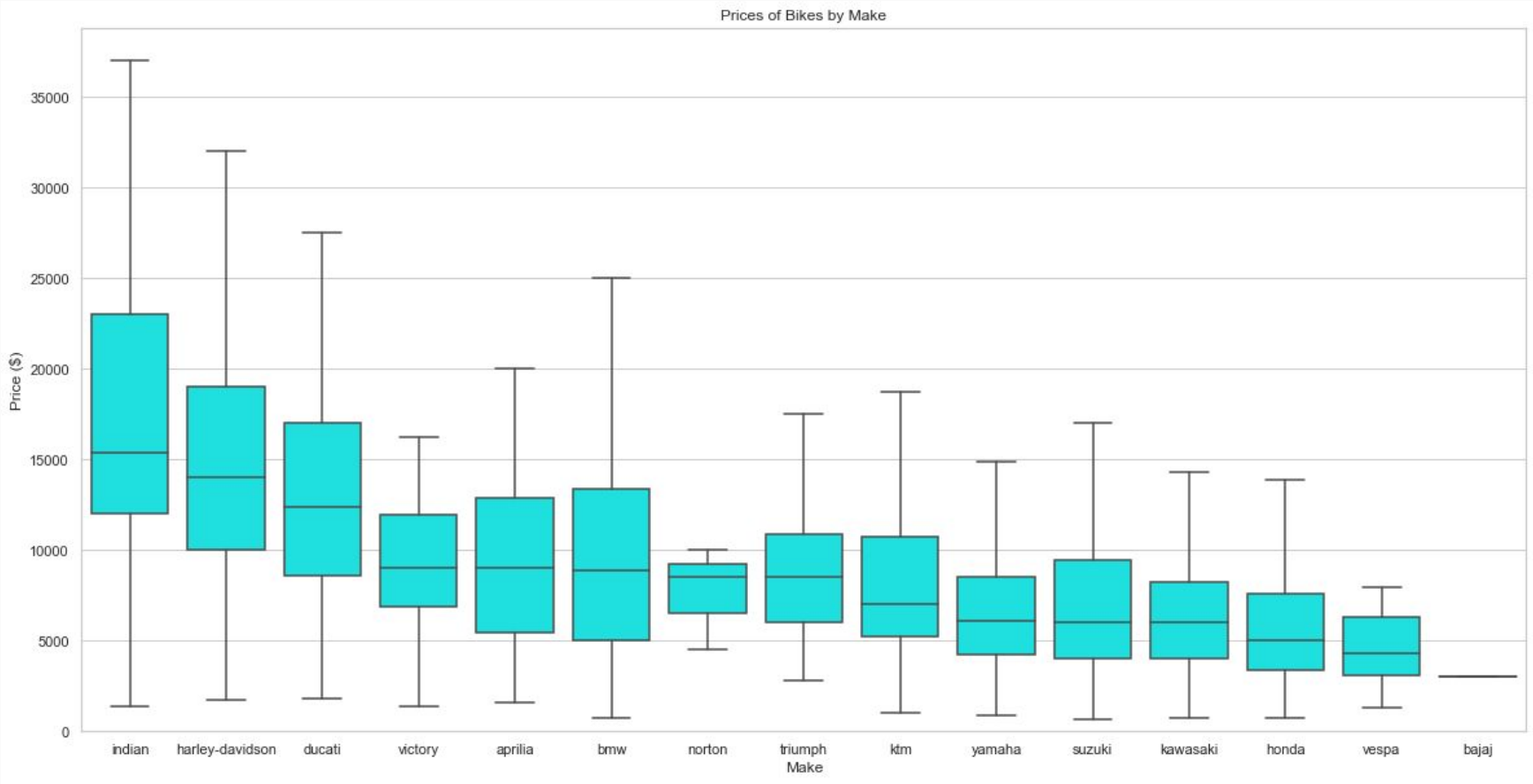
- Are you getting a good deal or bad deal?
- How much should the motorcycle you’re purchasing cost?

Scraping Data from Craigslist

- Listings from each city
- Individual features per listing (Price, make, model, odometer)

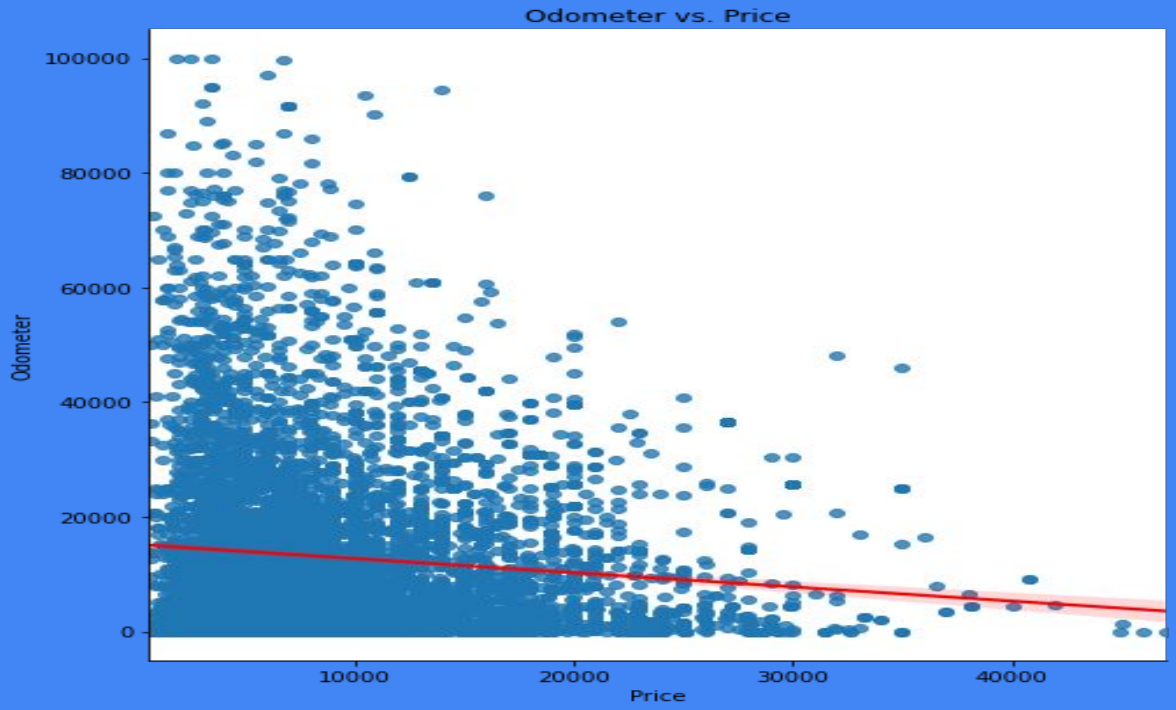


EDA - Price of motorcycles by Make (Indian typically being the most expensive)



Regression Models

1. Simple Linear Regression
2. Decision Tree Regressor
3. XGBoost Regressor
4. KNeighbors Regressor
5. Random Forest Regressor



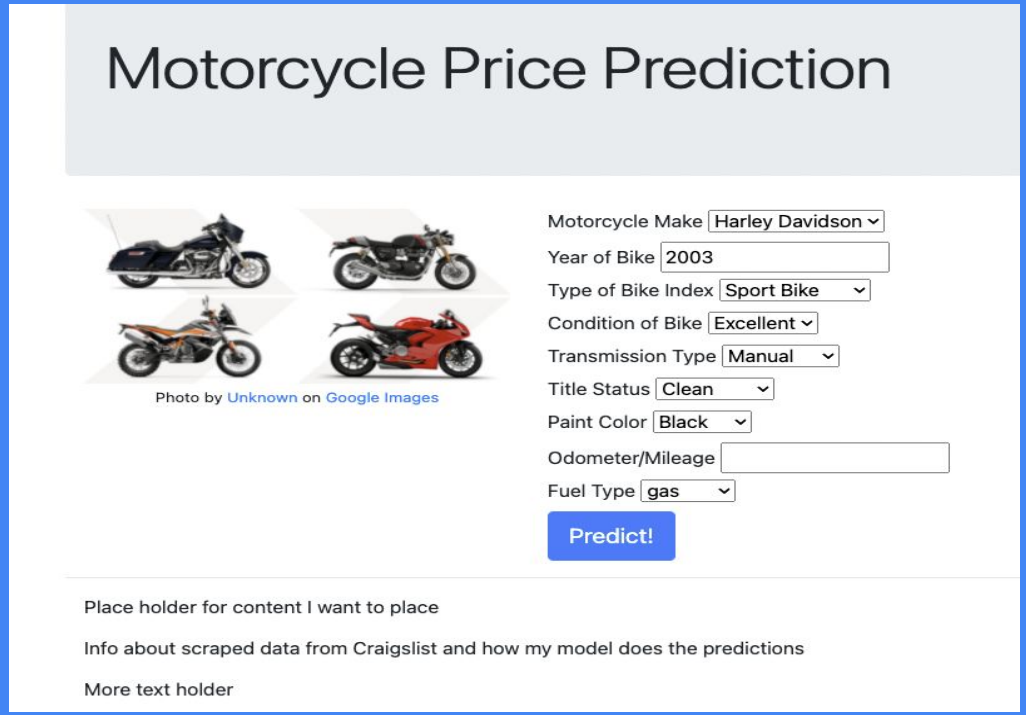
Best Model

XGBoost Regressor

- **Close to 70% variance explained**
- **RMSE of $3,500**

App Deployment

Enter the features of the motorcycle and the model will give out a range for how much the price should be



Thank you

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