# What Kind of Whiskey Gets High User Ratings?

An analysis of specific Total Wine spirits



## Introduction

#### **Motivation:**

assist distillers in creating a marketable product

### **Objectives:**

investigate user rating predictability

### Goals:

show a correlation between features and user rating

## Methodology

### Data:

- https://www.totalwine.com/
- 1198 rows, 11 columns

#### Metrics:

- whiskey name
- critic rating, rating source, user rating, number of reviews, price, brand, country, spirit type, taste notes

## Methodology (continued)

### Models:

 Linear Regression through regularization, feature engineering

#### Tools:

- BeautifulSoup
- Selenium
- scikit-learn

## Methodology (continued)

## **Features**

- whiskey name
- critic rating
- rating source
- user rating
- number of reviews

- price
- brand
- country
- spirit type
- taste notes

# Results and Insights

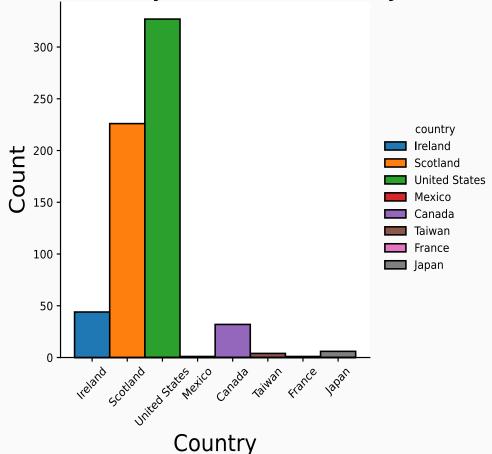
# 4.25

**Average User Rating** 

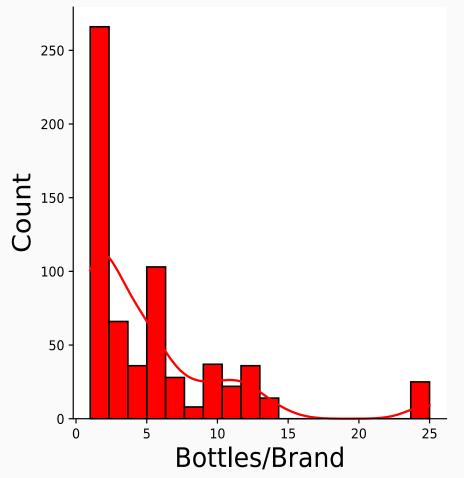
# \$6.99 - \$19999.99

**Bottle Price Range** 

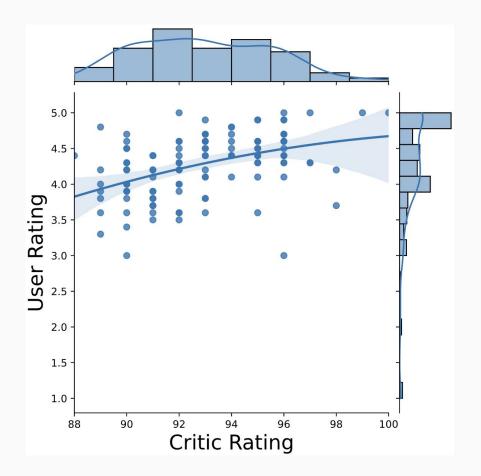
## Number of Whiskeys Manufactured by Country



## Plot of Counts for Number of Bottles Produced Per Brand



Joint Plot Showing a Polynomial Relationship Between User Rating and Critic Rating



# Train Test $0.593 -6.196 \times 10^{24}$

Simple Linear Regression R<sup>2</sup> Values

Train Test 0.063 0.051

LASSO Cross-Validation R<sup>2</sup> Values

## Conclusions

### Recommendations:

 Professional critic ratings are important

## **Interesting insights:**

- Taste notes are similar
- Several brands account for most of the whiskey produced



# Future Work

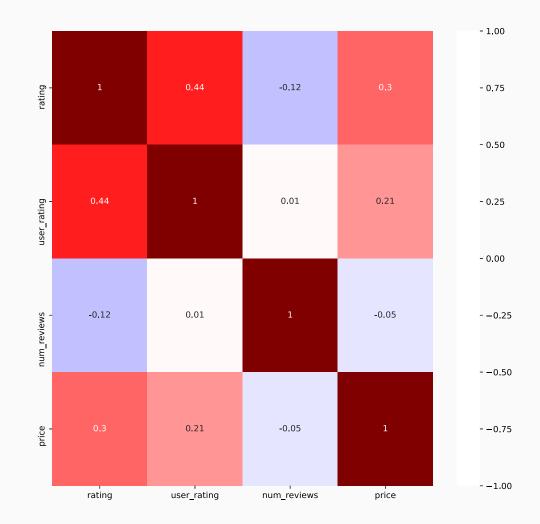
- Categorize the taste column
- Filter based on the top brands

# "There is no bad whiskey. There are only some whiskeys that aren't as good as others."

- Raymond Chandler

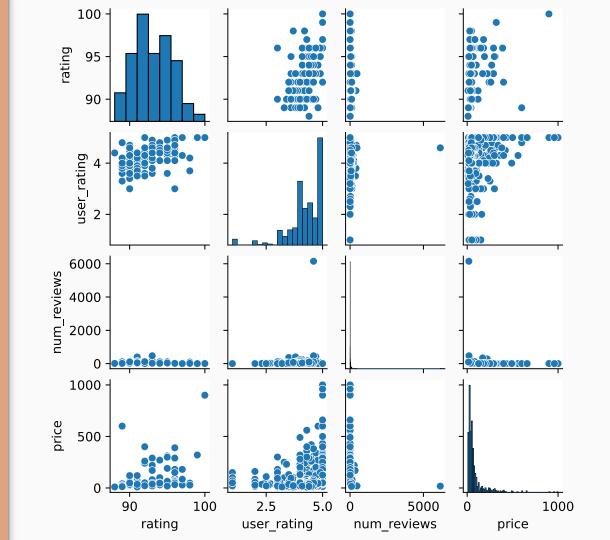
## Appendix

Heat map showing correlations between features



# Appendix

Pair plot showing correlations between features



## Will Nobles

https://github.com/wnobles

