

A high-quality photograph of a lowball glass filled with amber-colored whisky. The glass is partially submerged in a pool of water, creating a dynamic splash effect around its base. The background is a dark, moody gradient, and the lighting highlights the textures of the glass, the liquid, and the water splashes.

Phase 3 Project

Whisky Data Classification

By

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Introduction

Sales of whisky in the US (2019)

-approx. 70,000 (9 lt cases)

~\$4 Bn/yr in the US

Produced in over 25 countries

The doctor said I needed
to start drinking more
whiskey.

Also, I'm calling myself
"the doctor" now.



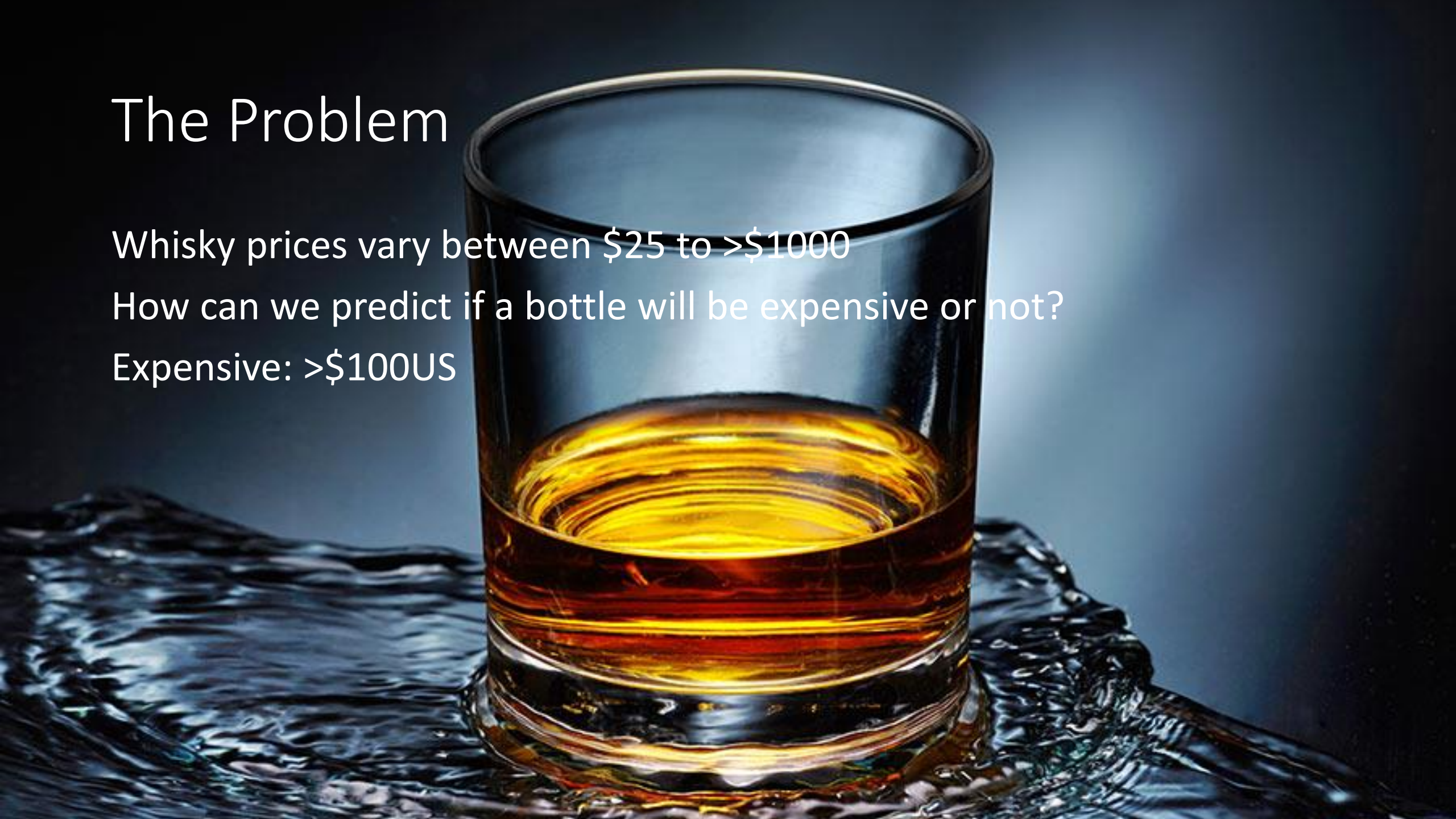
som^{ee}cards
user card

The Problem

Whisky prices vary between \$25 to >\$1000

How can we predict if a bottle will be expensive or not?

Expensive: >\$100US



The Data:

<https://whiskyanalysis.com/index.php/database/>

Containing almost 1800 whiskies.

	Whisky	Meta Critic	STDEV	#	Cost	Class	Super Cluster	Cluster	Country	Type
0	Macallan 10yo Full Proof 57% 1980 (OB, Giovine...	9.57	0.24	3	+++++	SingleMalt-like	ABC	A	Scotland	Malt
1	Ledaig 42yo Dugadh	9.48	0.23	3	+++++	SingleMalt-like	ABC	C	Scotland	Malt
2	Laphroaig 27yo 57.4% 1980-2007 (OB, 5 Oloroso ...	9.42	0.23	4	+++++	SingleMalt-like	ABC	C	Scotland	Malt
3	Glenfarclas 40yo	9.29	0.26	17	+++++	SingleMalt-like	ABC	A	Scotland	Malt
4	Glengoyne 25yo	9.24	0.22	21	+++++	SingleMalt-like	ABC	A	Scotland	Malt

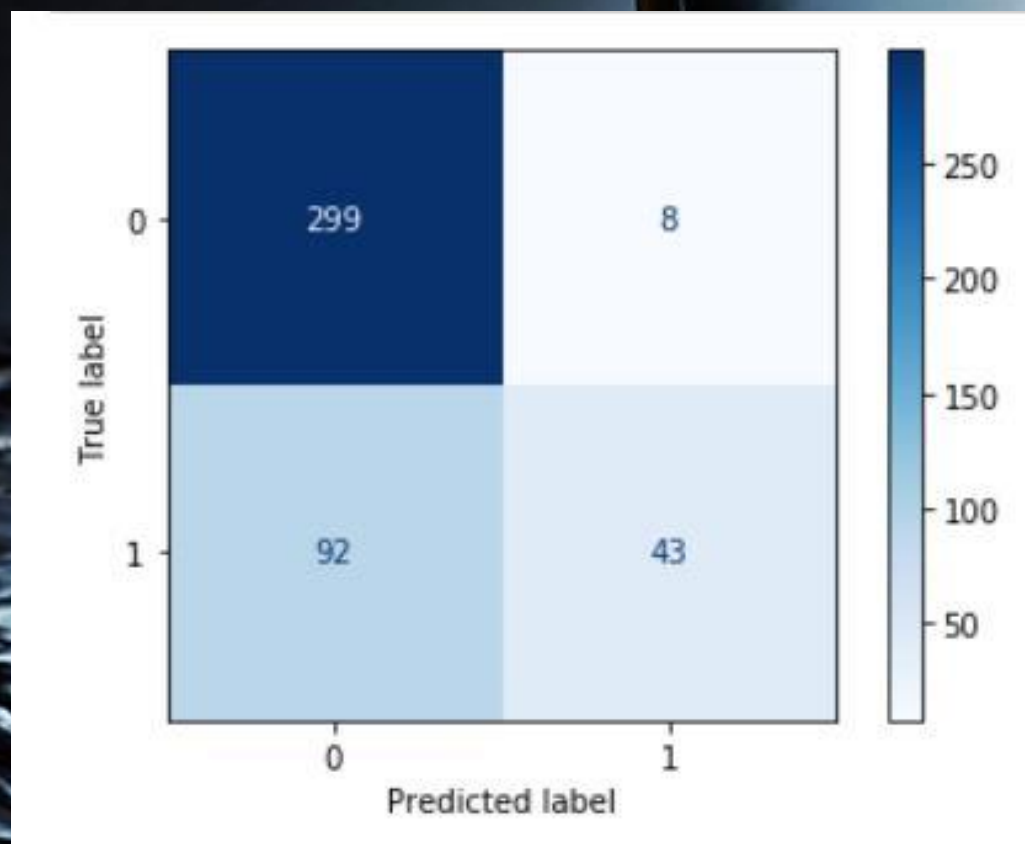
The Process

- Several models were created using a variety of methods:
 - Decision Trees
 - Random Forests
 - Ada Boost
 - Gradient Boost
 - Xtreme Gradient Boost

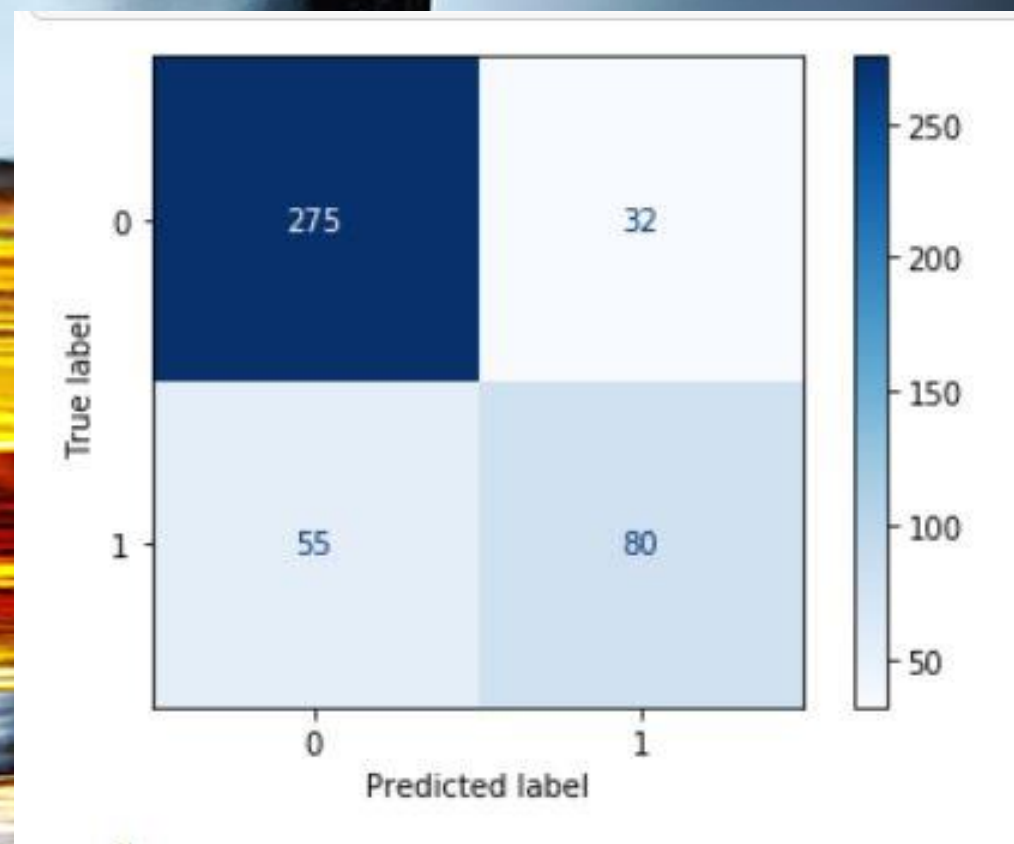


Results

Ada Boost model



Decision Tree model



Results, con't

- Recommendations:

Parker's Heritage 5th 10yo Cognac Barrel Finished

Aberfeldy 18yo

BenRiach 17yo Solstice 2nd Peated Port Finish

Bruichladdich Port Charlotte PC10 Tro Na Linntean

Whyte & Mackay 30yo

Willett Family Estate 17yo Bourbon

J.P. Wiser's Union 52

Glen Grant 10yo (G&M)

BenRiach 17yo Solstice Peated Port (both editi...

Stagg Jr batch 5 (129.7 proof)

- Future considerations/improvements:

- Improved/more data
- More work on 'cluster'

A close-up photograph of a lowball glass filled with amber-colored whiskey. The glass is partially submerged in a pool of water, creating ripples. The background is dark and out of focus. Overlaid on the glass is the text "Thank you." in a large, white, sans-serif font. Below it, in a smaller white font, are the words "Questions?" and the email address "djournic@gmail.com".

Thank you.

Questions?

djournic@gmail.com