# Problem Statement

**Predict the type of beer given the ABV & IBU.**

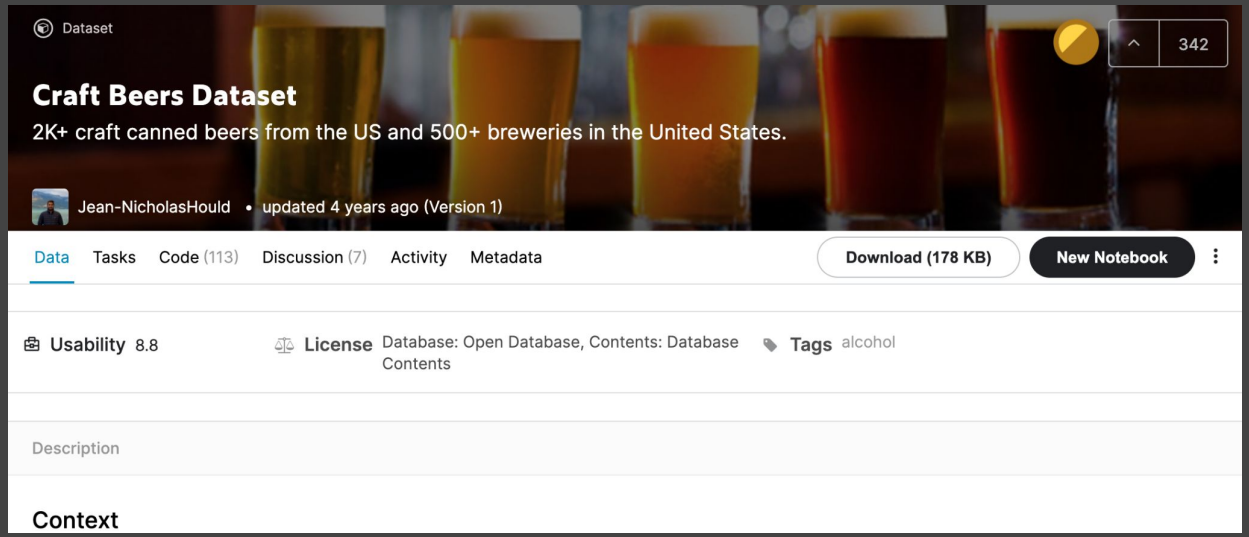
ABV: alcohol by volume

IBU: a gauge of beer's bitterness

# Dataset

## Kaggle Craft Beers Dataset

This dataset contains a list of 2,410 US craft beers and 510 US breweries.



# Assumptions

"There are two main styles of beer—**lagers** and **ales**. All beers fall under one of these two categories. In other words, a pilsner is a lager, and porters and stouts are ales."

- Noble Hops Brewery

# Model

**KNN Classification**

This classification problem involved predicting whether a beer was a lager or an ale. As a baseline, I used the majority class, which was ales.

**Metrics**

Can the model improve on the majority class?

```
In [13]: y.value_counts(normalize=True)

Out[13]: 0.0    0.874021
         1.0    0.125979
         Name: type, dtype: float64
```