

Craft Beer

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GitHub Portfolio: [knmoses.github.io](https://github.com/knmoses)

Which Domain?

For this project, I will be focusing on craft beers and breweries. The dataset was found on Kaggle and focuses on craft beers and brewery locations.

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Which Data?

The dataset I will be examining is the Craft Beer Dataset from Kaggle. It is located at <https://www.kaggle.com/nickhould/craft-cans>. There are two datasets included, one for breweries and one for craft beers. The brewery dataset includes the brewery name as well as the city and state in which it is

located. The craft beers dataset includes the alcohol by volume, international bitterness units, ID, beer name, beer style, brewery ID, and number of ounces.

Research Questions? Benefits? Why analyze these data?

Both datasets will be looked at for different questions.

- What characteristics are associated to each type of beer?
- Where are the greatest number of breweries located? The least amount?
- If another brewery were to open, where may it make the most sense to do so?
- What are the similarities to the beers as well as the differences?

I will look at the data separately and then also together to be able to answer the questions. I want to learn more about what makes up the craft beers and how the styles are different. This project will help determine more about breweries and which cities and states are most popular with them, along with how craft beers are categorized.

What Method?

I plan to look at different models to determine the best outcome, starting with classification and clustering models. Each model will be able to help separate the data based on characteristics and provide the best analysis for answering the research questions. Exploratory data analysis and visualization methods will be explored as well.

Potential Issues?

There are a few issues I can see myself facing. Factors there may be to throw me off schedule including prior commitments, daily activities and focus. I can additionally see some potential issues with finding helpful research. There is a lot out there but very similar information across all found so far.

Concluding Remarks

There are many kinds of craft beer made by different breweries across the country. Some of them include lagers, pilsners, ales, and IPAs. While the beers are nice for some to enjoy, the presence of breweries help build the economy in places. Craft beers and their breweries give us something more to enjoy. It provides an experience, supports a smaller business, specialty brews are around for the seasons, and some can say it brings people together. There is a lot that goes into brewing a craft beer and history behind the brewery. We can analyze more of this information by being able to take the characteristics of the beers and identify its type from them. In addition, we can identify how breweries can provide more for the areas they are in including revenue and employment.