

Most Valued Restaurant Attributes By Location

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Objective and Overview

The objective of my project is to identify trends of restaurant attributes, such as standard attire, ambience, preferred meal (breakfast, lunch, dinner), free or valet parking, etc. for different areas and determine how areas value different things in restaurants. I believe it will be interesting because the data set provided not only covers very different parts of the US, it also covers England and Germany, allowing for more potential changes to exist as their culture is different from culture in the US.

Tasks Required

I plan on doing some sort of classification on this dataset to match certain restaurant attributes to good reviews. I wish to present the results of this study with infographs of the top results for each area, and possibly a combined one for all areas. A demo of the program would involve reading the data and constructing the data set in real time for a specific area, or all areas if time were allotted. The website will contain all of these infographs and information about how the methods used to derive these conclusions.

Challenges

I'm not sure exactly which classification methods I will use on this data set, and one of the challenges will be researching what to use and making a decision on that. Having such a large data set is another challenge to overcome, and so I will have to use small portions of it during testing and find efficient solutions so that my solution can be executed in a reasonable time frame. I also have to be sure that there is consistency in the business attributes throughout the entire dataset, and make some changes if there is not

Efficacy

To evaluate efficacy, I can possibly create another demo to use Bayesian classification on random businesses and guess if they have good reviews or not based only on attributes, and compare these to the actual results given. As this project is only being completed by myself, there is no need to delegate tasks