# What makes a Good Business?

CS 287 Final Project Chen Ling 12/13/2017

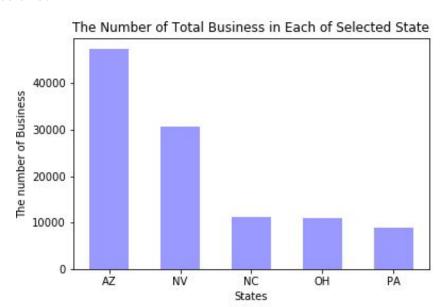
### Intro

The dataset I am using is from Yelp.com, which is a subset of business reviews, business information and user's information.

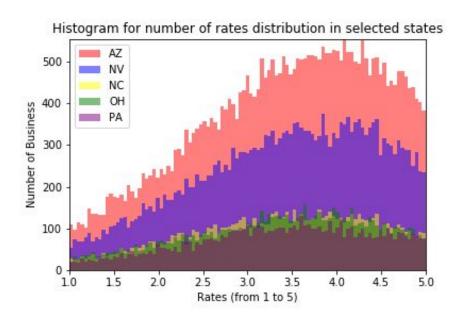
In this project, I intended to find commonplaces between high-rated business, including the type of business, location and the quality of reviews. Besides, I intended to analysis the star rating system.

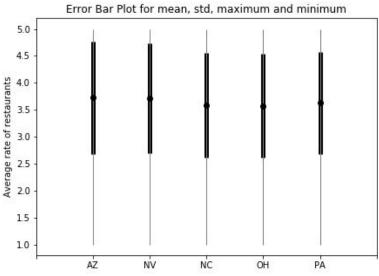
Last but not least, based on the Text Sentiment API, I want to analysis the subjectivity and polarity of reviews.

I chose top 5 states which has the most number of registered business ID, and they are AZ, NV, NC, OH, and PA. The following graph is the number of business from Yelp in each of five states.



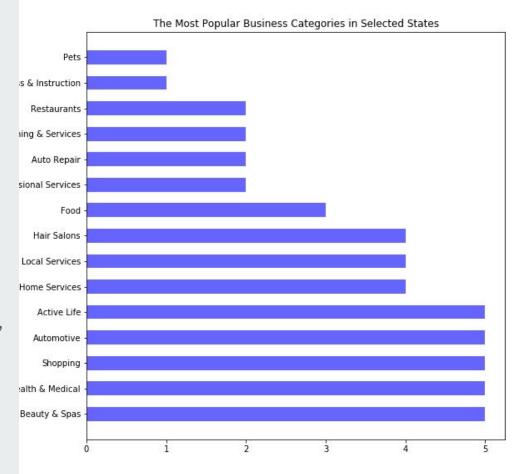
# **Graphs**



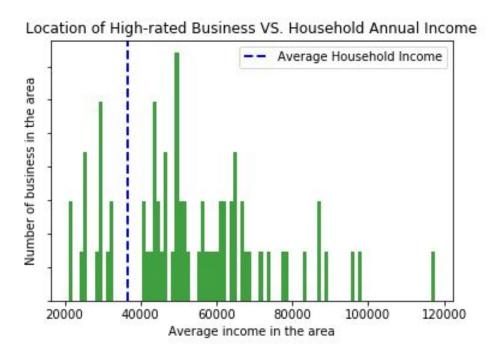


# The most popular Business Categories in the selected states

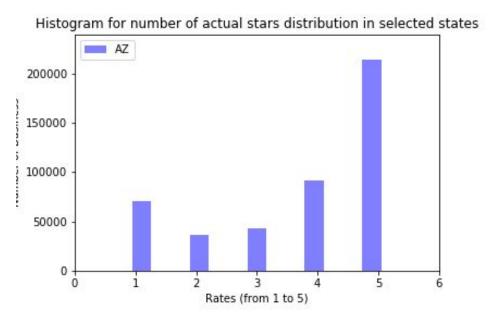
Active Life, Automotive, Shopping, Health & Medical, and Beauty & Spa

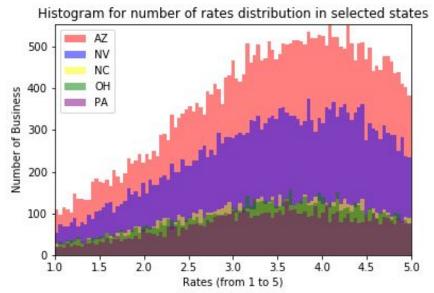


# Location of Business and Area Average Income

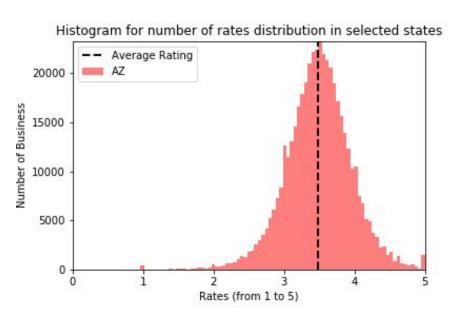


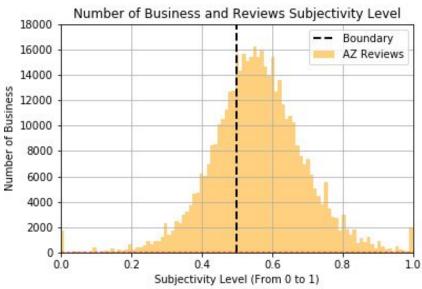
### Comparison of Aggregated rating and actual rating





## **Text Sentiment Analysis Result**





### **Result and Conclusion**

- high-rated businesses are more likely to exist in the relatively wealthy area; and high-rated businesses category reflects that people nowadays care more about personal care and living quality.
- 2. Star rating system has been considered harmful, which is not accurate and may contain personal subjectivity. A simple thumb up and thumb down would solve lots of problems