
Get The Foodies

Presented by Erica Ho



The Emerging Power of Crowd-sourced Review Forum

- 142 Million unique visitors / month
- Yelp system:
 - 67% of reviews are 4 stars +
 - 70% of business are recommended



Understanding Customers

Conduct **sentiment analysis** on
customer reviews to help business
owners **understand what**
customers like or dislike about their
restaurants.



Data Overview

Web Scrapping the Latest 200 Ratings and Reviews

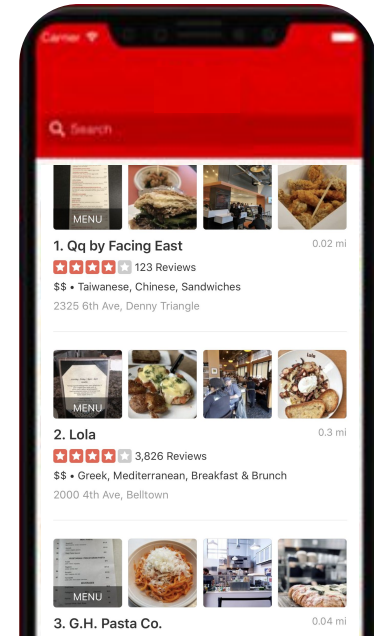
Customer
Ratings

Positive
Reviews

Negative
Reviews

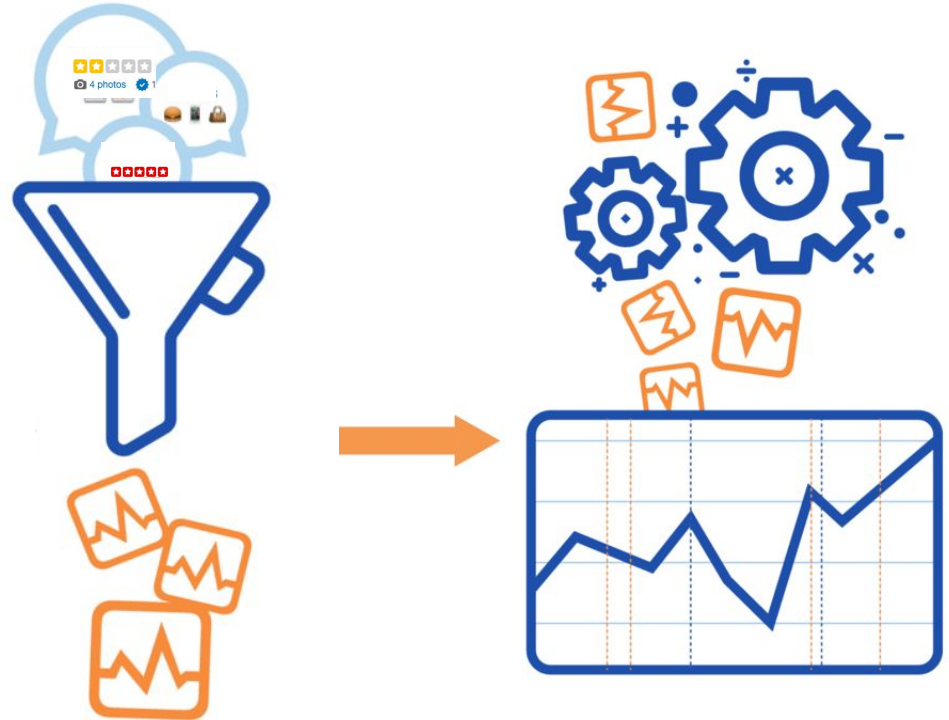
4 Stars
5 Stars

1 Star
2 Stars
3 Stars



Modeling

- TF-IDF Vectorizer
- Logistic Regression
- Shapley Value



Use Case

- Problem:
Low customer retention rate
- The Process:
Conduct Get The Foodies!
Analysis



Use Case



	Words with Positive Impact on Ratings	Words with Negative Impact on Ratings
1	wonderful	ordered
2	birthday	packed
3	loved	typical
4	menu	meat
5	mushrooms	steakhouse
6	knowledgeable	really
7	staff	fries
8	took	restaurants
9	ribeye	interesting
10	cuts	medium



Use Case



('Negative Review:',

"After a few decent happy hours here we took the full dinner plunge. Really none of the magic of Whale Wins. A steak so dry it was at jerky level. Wish that we had gone for the aligot, but missed that chance. The drinks were a bit unimaginative and even the suggested wine pairing seemed picked at random. We may have visited on an off night, but after hearing similar complaints from friends and especially ones that we steered here I have to say it's off my list.")

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