

Find your food-mate

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Problem

- We feel people often bond over food and are unaware of people who share same tastes. So we try to recommend people with common food preferences and with similar food tastes
- We try to identify users who have similar food tastes and affinity towards similar cuisines and try to find similar users

Approach

- We use Yelp to collect various data about restaurants details such as cuisine and ratings
- Content-based recommendation system to find similar users of ratings and the cuisines
- Content-based recommendation system provides us the predictions of the ratings for Users by looking at the pattern of the similar reviewed data
- We have used Term-Frequency Matrix and Cosine Similarities to achieve this

Data

- We used BeautifulSoup to scrape the data from Yelp to extract data from HTML tags of the webpage
- Collected various data like Usernames of users who have given the reviews for the restaurants , Star ratings of them and User reviews and cuisines of restaurants in the chicago city

Results

- Based on Cosine similarity we have found users who share food tastes and try recommending them
- Primarily we have used Cosine similarity as our similarity measure
- We have also tried to compare our results with other similarity measures such as Jaccard and Pearson Coefficient.

Conclusions

- We used User-User Collaborative filtering to predict ratings for the users
- Our recommendation works in certain cases :
 - We cannot recommend users who already have rated a restaurant with a lesser ratings
- Based on the cosine similarities we have recommended friends for our users