

Recommendation system at its basic helps the system in getting the desired result as per the requested keyword, in turn improving the quality of search results. It is affected by different elements including historical data of user, search patterns, date and time etc.

Restaurant recommendation system deploys content – based filtering (Good to explore different kind of recommendation system).

In this project, we are going to use content-based recommendation system. Once we complete building this recommendation system, then when we enter a specific restaurant name, we will be given list of restaurants that are similar to the entered one based on reviews and other details.

Dataset: Please use Zomato dataset as shared earlier.

Below are the steps that you can follow (you are expected to get in depth of each step with your own research and understanding). Everything is not mentioned as step by step process.

1. Import necessary libraries: pandas, NumPy, regex, stopwords from nltk.corpus, linear_kernel, and ML libraries.
2. Read data
3. Do data cleansing – you must have done it earlier.
4. Do text preprocessing
 - a. Removing stop words, urls, punctuations etc.
 - b. Correct spelling
 - c. Other required text preprocessing
5. Use TF – ID vectorization technique from NLP to make matrix of reviews. You can watch a few videos, one relevant video is here:
<https://www.youtube.com/watch?v=WN18JksF9Cg>
6. After that, build the a function that will recommend the restaurant when a user enters a restaurant name from restaurant list.

The above task would require good amount of research and thinking, please invest your best effort.

Thanks