Mood Based Food Recommender

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INTRODUCTION

With the rapid and continuous growth of accessible information and technological advances, of course It is very difficult for people to identify and access those high quality, popular, and reliable services. In addition, thoughts, and feelings from colleagues about the ministry greatly affects user decisions and beliefs. System recommendations from not only time and money stored but also with items that best fit the needs of users. Because I accessible web data explodes, in addition to countless items, films or restaurants are welcomed by consumers.

The purpose of this program is to promote consumer-based diets heart condition from high quality restaurants with top quality. An application is created where the user has to select the latest attitude, based on what food and best restaurants are available having a recommended diet is also recommended. Restaurants are suggested based on user location, collected using the K-Means Algorithm and this model is connected to a web application built using Flask. Application uses content-based filters and collaborative-based filters methods while recommending food and restaurants.

Currently, a website that can provide food and restaurants Personal status recommendations are not available. Existing systems are based on measurements or location or nutrition etc. but, not with both options. In the proposed project, the website is developed by registration and login customers, and food recommendations as well restaurants based on customer status, location, rating in to give a measure. the cost of two people. Sentimental analysis and mining of ideas were done during the construction of the model food and restaurant recommendations. The advanced model is downloaded in a python code through pickle and this python code is executed using PyCharm which is create link access for advanced model and HTML pages.

DATASET

In this study, data sets were taken from Kaggle for construction model and emotional-based recommendations a customer. Includes two data sets, "Zomato" and "food options" for air-based compliments, respectively. The official Zomato data contains 9552 samples with attributes such as rating, address, food, rating costs, delivery available etc ... From this database, the data says selected by customer location i.e., using latitude, the height and quality restaurants of those regions

shown with recommended food. Another set of “food options” data is the data it contains of consumer food options when in that situation. This database includes 126 samples with food-like properties, status, nutrition, gender etc ... In these two data collections, attribute selection is done before model building as well to create a recommendation plan.

LITERATURE SURVEY

Sumedh and Gina Pai proposed a Yelp Food Recommendation System based on customer’s restaurant rating. Using Yelp dataset, they extracted both collaborative and content-based features to identify the profiles of customers and restaurants. They used K-nearest neighbor clustering for building the model that recommend restaurants, based on preferred ratings and location of the customers.

Mara-Renata and Sergiu-George constructed a model that can recommend restaurant based on positive and negative reviews of it using sentimental analysis. They combined the outputs of sentimental analysis and recommendation system to build a model that can recommend effectively and efficiently, while performing sentimental analysis by taking the positive and negative reviews of customers and giving this output to recommendation system, whose results are used to recommend restaurants to other customer through collaborative filtering method.

The restaurant recommendation system proposed by Li Chen et al. Itwas based on reviews of the visited customers. In this research, a review-based restaurant recommendation model was built based on content-based, collaborative filtering and preference-based product rating techniques. Text analysis is done on the reviews of the customers and then the rating is calculated, when customers give a preferred a rating then all restaurants with that rating are displayed. But this cannot sort restaurants based on location and rating at the same time. In work presented by Khan et al. The restaurant recommendation system based on opinion mining on unstructured reviews by the customers like emojis, gifs etc. is proposed. The results of this research were extraordinary, which deduced every unstructured opinion into some useful data which is further used to rate the restaurants.