

TRAVEL-GUIDE

1) Introduction/Business Problem

The Travel-Guide project mainly targets the audience, who visit a place for the first time. When a Person visits a place for the first time or he/she don't know about the nearby places, he/she will get benefited from the Travel-guide by just providing the address of the place. The Travel-Guide provides the best place out there for a specific category provided. The Travel-Guide also clusters the places and points them on a map, with their address as the pop-up.

2) DATA

The data being used in this project will be totally acquired from the Four-square API through the API calls. For that there will be a url including your client-id, client-secret and the details of the search. The API call returns you with the json file which contains the data in the json file format. Then the data been normalized and collected into a dataframe and then it is cleaned.

3)METHODOLOGY

->Initially as a first step I acquired the address from the user, to know where he has to go.

->Then with the help of that address I have obtained the longitude and latitude of the address using the geocoder library.

->Then I have plotted the location on the map using the folium library.

->Then with the help of foursquare API I have acquired the details of the particular venue type given by the user.

->The data acquired is of the json file format.

->Then I have obtained the data from the json file which is helpful.

->Then I have created a dataframe for the same.

->Then using foursquare URL for the ratings of a particular venue..I have acquired rating for the each venue.

->Then as a step of data cleaning, I have removed the columns which are irrelevant.

->Then I have removed the rows with the rating as 0.0 as they are not rated at.

- >Then I have plotted all the venues on the map.
- >Then I have clustered the venues into 3 clusters
- >Then I have plotted the clusters on the Map.
- >The best place will be given.
- >And the user will also be provided with the categories of the venues.

4)**RESULT**

The result of the Travel-Guide is that the user can be able to get the best venue of any category around him. He will also given the location of the venues. The venues are categorized so that he may choose the one related to him. The map plotted will be additional benefit.

5)**Discussion**

The Travel-Guide is recommending the places only based on the ratings given to the places. So,if a place is not rated yet, it will not be taken into the consideration. So, if we have any way of assessing the not-rated places with the sentiment analysis on the tips given in the foursquare, it will enhance the efficiency of the travel guide.

6)CONCLUSION

Hence the travel guide is a useful one for exploring the places around a particular location of interest. As travelers are those who constantly move from one to another place, this will be very useful for them.