ZOMATO API PROJECT – CODING NINJAS INDIA

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PROBLEM_1:

The dataset is highly skewed toward the cities included in Delhi-NCR. So, we will summarise all the other cities in Rest of India while those in New Delhi, Ghaziabad, Noida, Gurgaon, Faridabad to Delhi-NCR. Doing this would make our analysis turn toward Delhi-NCR v Rest of India.

QUESTION_1: -

Plot the bar graph of number of restaurants present in Delhi NCR vs Rest of India.

ANSWER : -

As the first step I have filtered out all countries which is not having Country Code as 1 so that only data of Indian restaurants will be extracted.

After that I have made one set wherein I kept all the cities which are in Delhi-NCR which will help me to segregate.

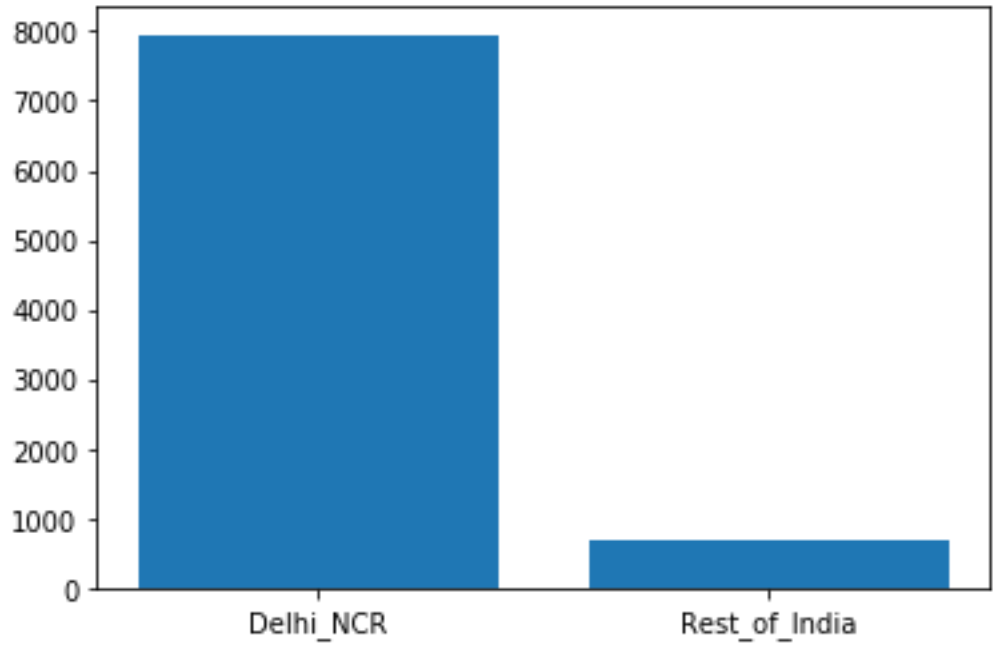
Then, I have made one dictionary in which I kept two keys, first one as Delhi_NCR and second one as Rest_of_India. Initially both of them are zero values. I have applied one

function that is get_city which is helping me to store the count. Inside the function I am checking whether city value present in the set if that is present, it means that will count Delhi_NCR so I update Delhi_NCR count otherwise Rest_of_India. Eventually I will get the desired result in the cities_group_restaurant_count dictionary.

One more thing, I have updated the name of the cities based on Delhi_NCR or Rest_of_India to answer further questions. Made two separate lists one for the count and one for the keys.

After that I have plot in bar graph and we can see Delhi_NCR has the ample number of restaurant as compared to Rest_of_India.

Below is the bar graph generated by my model -



QUESTION 2: -

Find the cuisines which are not present in restaurant of Delhi NCR but present in rest of India. Check using Zomato API whether this cuisines are actually not served in restaurants of Delhi-NCR or just it due to incomplete dataset.

ANSWER :

With given dataset I have found four cuisine names where are not present in Delhi-NCR restaurants and they are German, Cajun, Malwani and BBQ, but after checking with Zomato API I have found that some of them are present in Delhi-NCR restaurants.

Hence, dataset have some missing data that is causing inconsistency and contradicting results.

QUESTION 3: -

Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.

ANSWER: -

Here, I have made a dictionary named cuisines_count wherein cuisine name works as the key and value for every key is the count. I have also made function inside which I am storing the the count for each cuisines depending upon their occurrence.

Once I got the values filled in the dictionary I have made one list of list and 0th column is for count and 1st column is for the cuisine name. I have sorted the list based on the count and then I picked top 10.

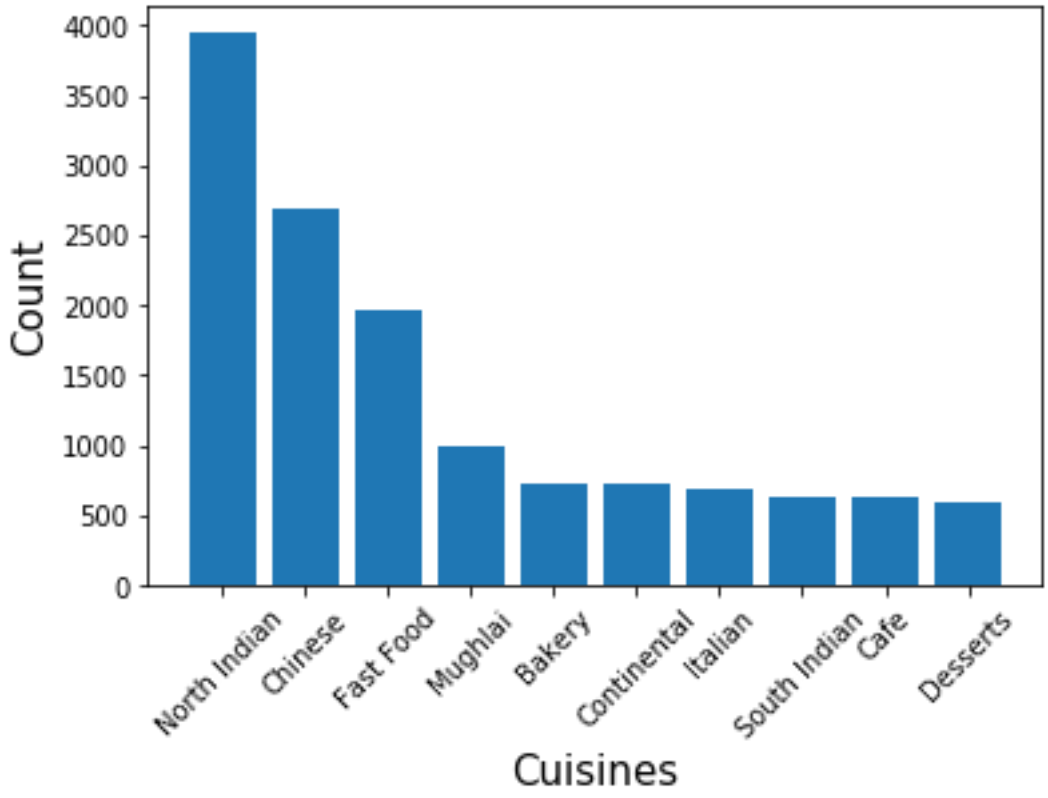
Then, I have plotted the results.

Top ten cuisines that are being servered in Delhi-NCR and Rest of India are

- 1 North Indian
- 2. Chinese
- 3. Fast Food
- 4. Mughlai
- 5. Bakery
- 6. Contental
- 7. Italian
- 8. South Indian

- 9. Cafe
- 10. Desserts

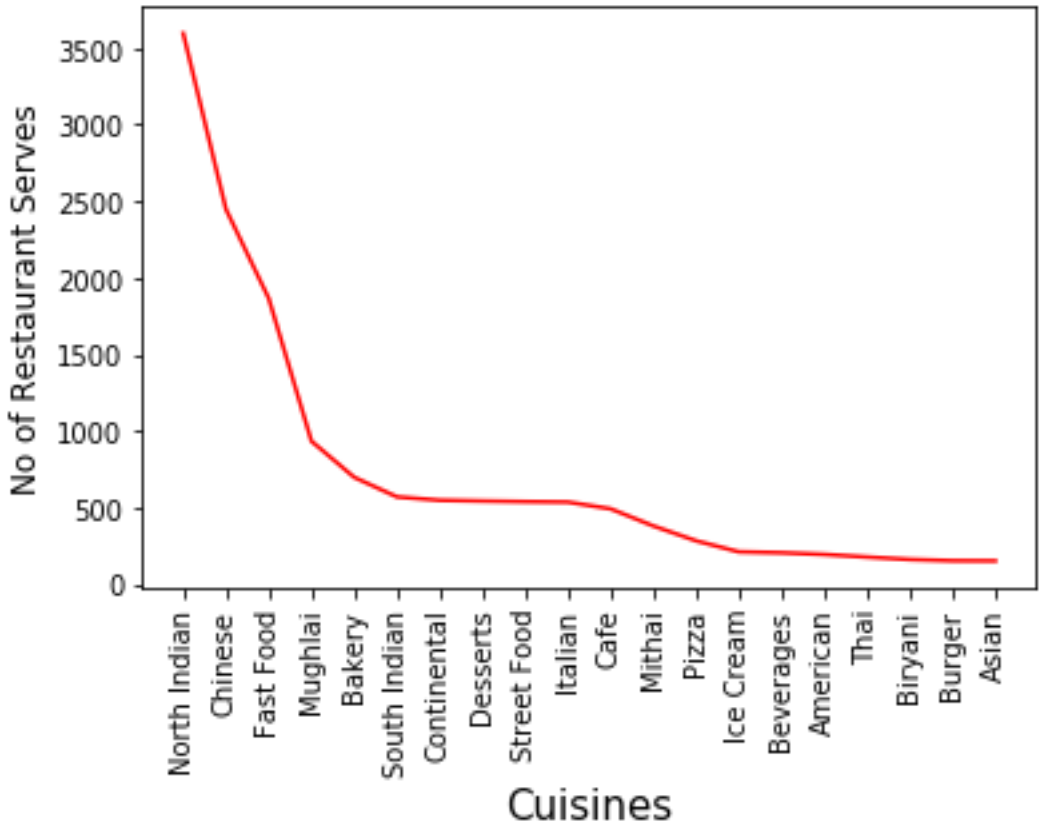
Below is the graph observed while doing the analysis:-



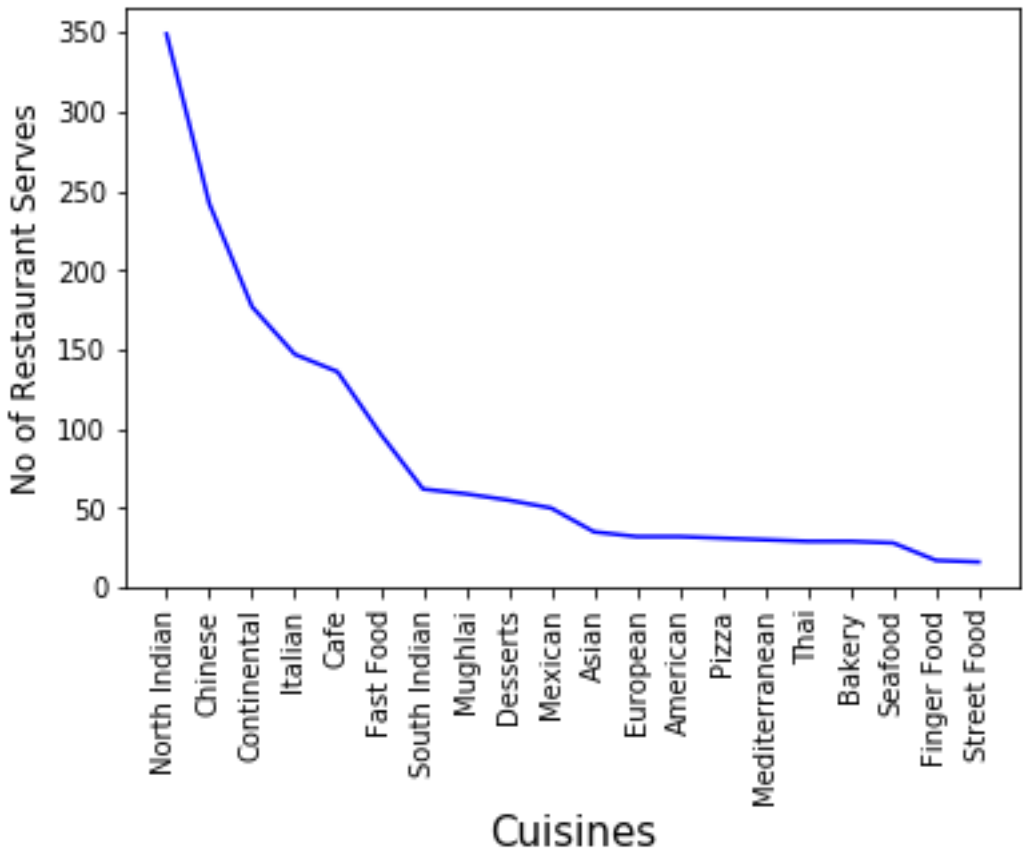
QUESTION 4: -

Write a short detailed analysis of how cuisine served is different from Delhi NCR to Rest of India. Plot the suitable graph to explain your inference.

ANSWER : -



Above graph shows cuisines serves for Delhi-NCR.



Above graph shows cuisines serves for REST OF INDIA.

From the above graphs its clear that North Indian, Chinese Cuisine are servered most in both places. But number of restaurants serves has a huge difference, North Indian cuisinse is served by more than 3500 restaurants in Delhi NCR but this data changes drastically in Rest of India, and that is only 350 or so and same goes for Chinese cuisine.

Third most servered cuisine in Delhi NCR is Fast Food where in Rest of India, it is Continental and there is some order difference between the two in terms of restaurant serves. There are total 86 different cuisines that are offered in Delhi-NCR wherein Rest India offers 70 different cuisines.