

User Rating of a restaurant plays a crucial role in selecting a restaurant or ordering the food from the restaurant.

Write a short detail analysis of how the rating is affected by restaurant due following features: Plot a suitable graph to explain your inference.

1. Number of Votes given Restaurant

Answer: After plotting the graph we can clearly see that the restaurants who got more votes they usually got good rating i.e 4-5 and voting range is 60k-100k . If we take a look at the low rating then we can find that there are less number of votes as compare to 4-5 rating range voting. To Conclude I can say that if we go with large number of voting for a restaurant then we will get good food usually.

2. Restaurant serving more number of cuisines.

Answer: Approach is similar to the previous questions ,I made number of cuisines as key and I have stored all the rating given to particular number of cuisines also I have stored the number of restaurants , so basically key has two values. And rating will lie between the min rating and max rating got by number of cuisines. To find out the average rating I have used $\text{total_rating}/\text{restaurant_count}$. In the plotted graph we can notice the higher number of cuisines offered the higher is the rating. 60 - 80 range has got the higher ratings. But still there are some fluctuations as restaurants after offering variety of cuisines still they couldn't get good rating. So it will be better to go with more number cuisines offered by a restaurant.

3. Restaurant serving some specific cuisines.

Answer: Approach is Same as the previous question,I have made one dictionary which is storing cuisines and ratings and the count of restaurants, where cuisine is the key and total_ratings and number of restaurant are the values. I found sum of all the ratings and divided it by the total number of restaurants, and got the average rating. Then I sorted them in descending order based on their ratings and after that I have plotted them in bar graph. From the plotted bar graph we can see that those restaurants offering German, Mordern Indian, Persian cusines get the good ratings. So if we good to a restaurants where these cuisines are being offered then there we are

likely to get good food.

4. Find the weighted restaurant rating of each locality and find out the top 10 localities with more weighted restaurant rating?

Answer: In this question we need to find the weighted ratings for each locality so I have used one dictionary which will store the locality names and it will store all the values of all restaurants present in that locality. I have used the Formula mentioned to get the weighted rating. From the graph plotted we can see these are the top 10 localites:

- 1 Hotel Clarks Amer, Malviya Nagar
- 2 Aminabad
- 3 Friends Colony
- 4 Powai
- 5 Kirlampudi Layout
- 6 Express Avenue Mall, Royapettah
- 7 Deccan Gymkhana
- 8 Banjara Hills
- 9 Sector 5, Salt Lake
- 10 Riverside Mall, Gomti Nagar