

# Identifying the best hotels of Chennai using Zomato API

- Cyril Bastin M

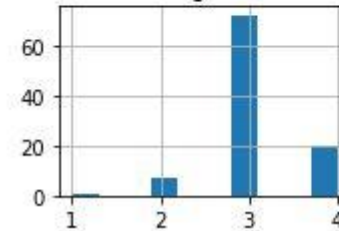
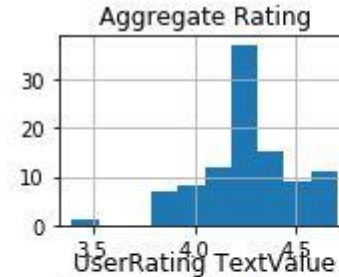
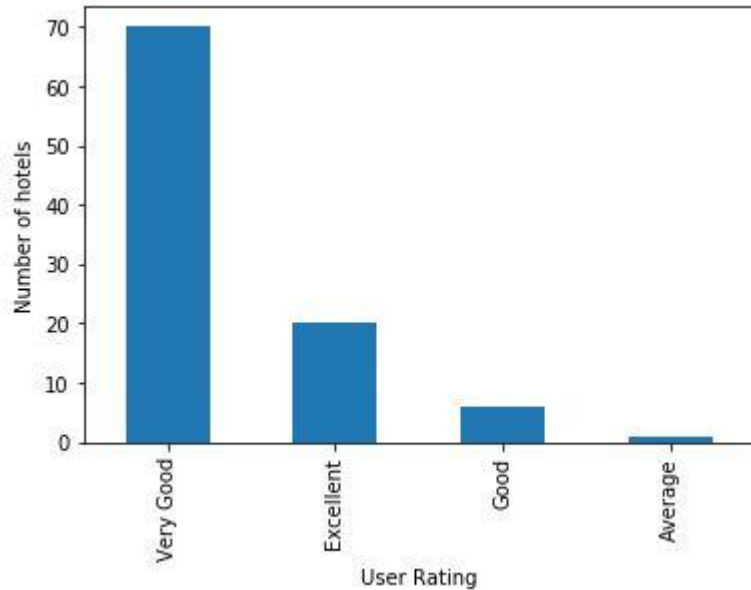
# Data Extraction, Transform and Load to DataFrame

```
{'location': {'entity_type': 'subzone',  
  'entity_id': 6008,  
  'title': 'Park Town',  
  'latitude': '13.0798960000',  
  'longitude': '80.2751110000',  
  'city_id': 7,  
  'city_name': 'Chennai',  
  'country_id': 1,  
  'country_name': 'India'},  
 'popularity': {'popularity': '4.33',  
  'nightlife_index': '0.98',  
  'nearby_res': ['66330',  
    '67408',  
    '66334',  
    '71679',  
    '66342',  
    '66312',  
    '68329',  
    '18428769',
```

```
Index(['restaurant.R.res_id', 'restaurant.all_reviews_count',  
      'restaurant.average_cost_for_two', 'restaurant.cuisines',  
      'restaurant.establishment', 'restaurant.events_url',  
      'restaurant.has_online_delivery', 'restaurant.highlights',  
      'restaurant.is_table_reservation_supported',  
      'restaurant.location.address', 'restaurant.location.city',  
      'restaurant.location.latitude', 'restaurant.location.locality',  
      'restaurant.location.longitude', 'restaurant.location.zipcode',  
      'restaurant.name', 'restaurant.offers', 'restaurant.opentable_support',  
      'restaurant.phone_numbers', 'restaurant.price_range',  
      'restaurant.store_type', 'restaurant.timings',  
      'restaurant.user_rating.aggregate_rating',  
      'restaurant.user_rating.rating_color',  
      'restaurant.user_rating.rating_text', 'restaurant.user_rating.votes'],  
      dtype='object')
```

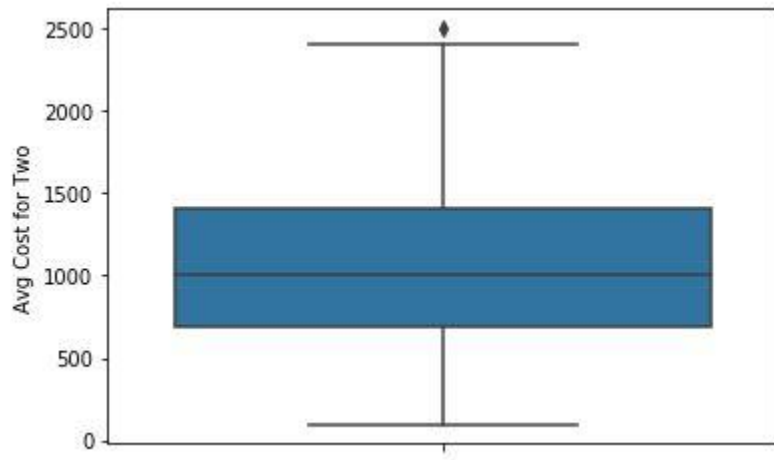
City	Latitude	Locality	Longitude	Price Range	Aggregate Rating	UserRating Color	UserRating Text	UserRating Votes
Chennai	13.000380	Alandur	80.200623	3	4.3	5BA829	Very Good	45755
Chennai	12.970815	Pallavaram	80.147182	2	4.5	3F7E00	Excellent	3700
Chennai	13.022305	Kotturpuram	80.242340	3	4.2	5BA829	Very Good	2731

# Distribution of data



The data is distributed for user rating and price range of the food that cost for two.

# Outliers



Based on the average cost for two people at a hotel, outliers are removed from the data.

Assumption: Hotels with high price ranges cannot be rated together with that of the lower ones.

# The best value of K and the classified data

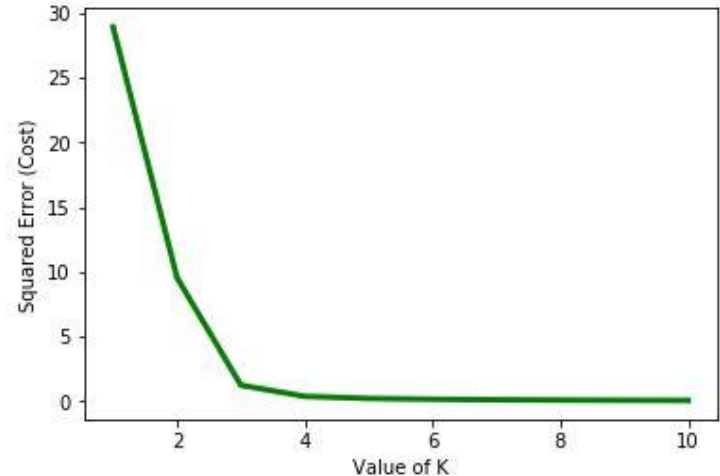
```
df_data1['Classifier'].value_counts()
```

```
0    70
```

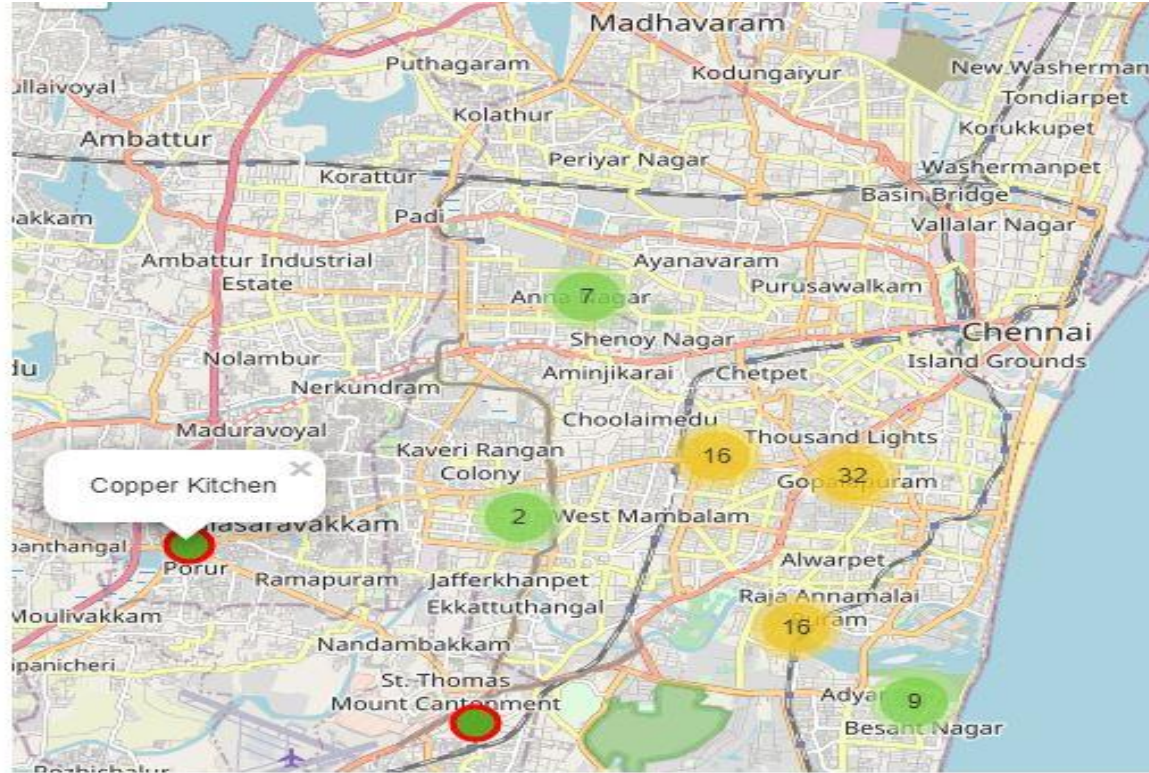
```
1    20
```

```
2     7
```

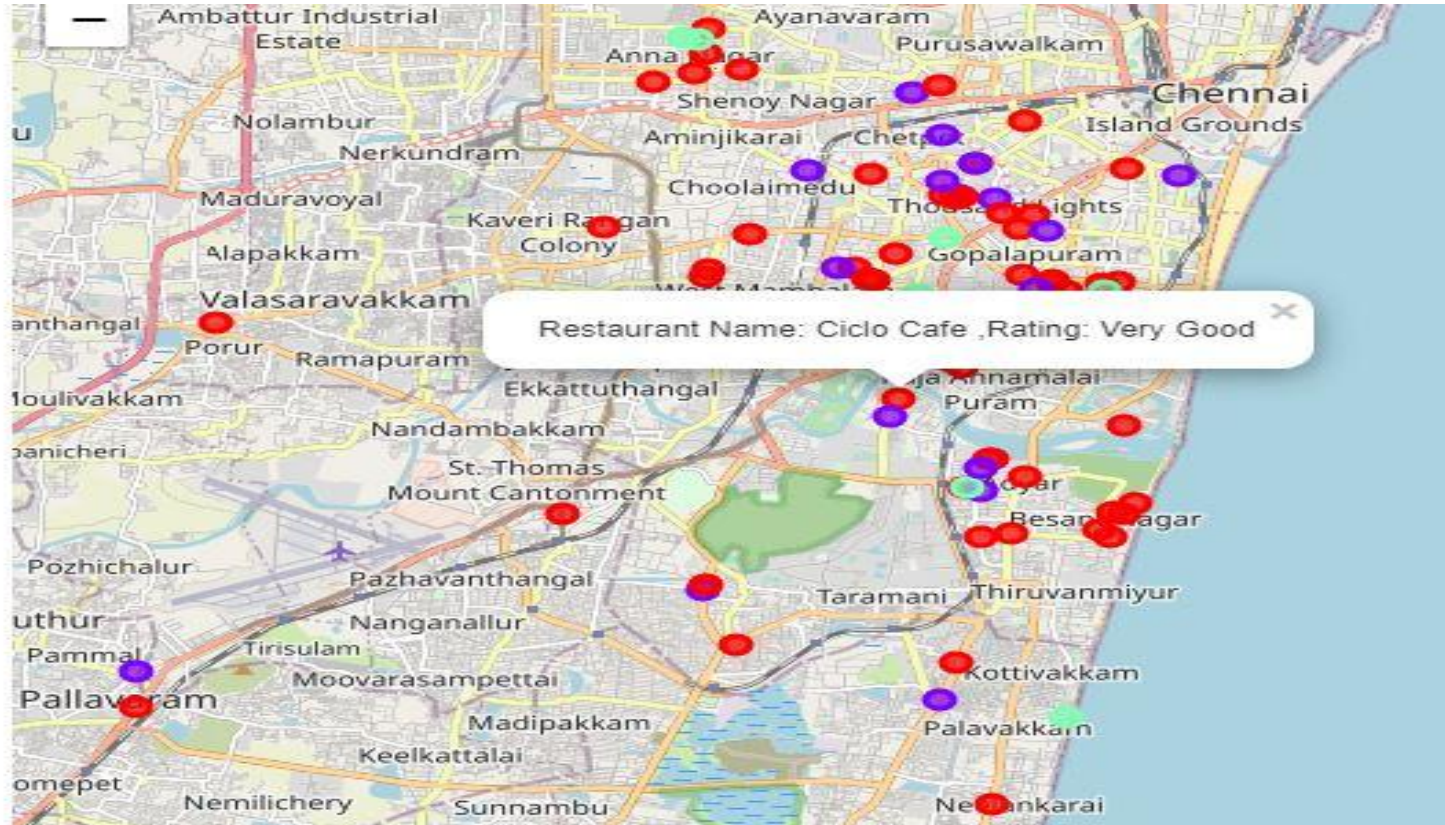
```
Name: Classifier, dtype: int64
```



# Display of map before clustering

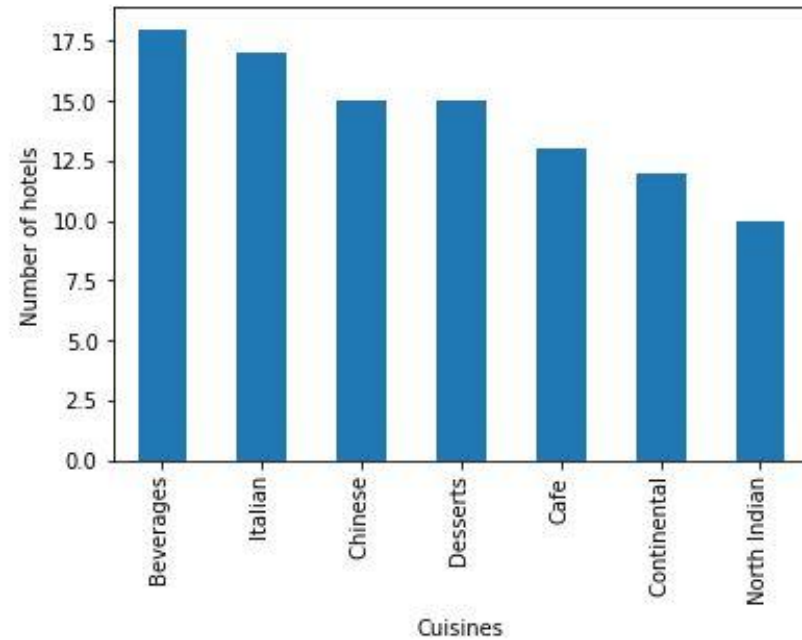


# Display of map after clustering





# Most served Cuisines in Chennai





**Thank you**