# BATTLE OF NEIGHBOURHOOD OF NOIDA

Capstone Project – Nitesh Singh

# Introduction

Noida, short for the New Okhla Industrial Development Authority, is a planned city under the management of the New Okhla Industrial Development Authority (also called NOIDA). It is a satellite city of Delhi and is part of the National Capital Region of India. As per provisional reports of Census of India, the population of Noida in 2011 was 642,381. Noida is located in Gautam Buddh Nagar district of Uttar Pradesh state in close proximity to NCT of Delhi. The district's administrative headquarters are in the nearby city of Greater Noida.

The city is a part of the Noida (Vidhan Sabha) constituency and Gautam Buddha Nagar (Lok Sabha) constituency. Minister of State for Culture and Tourism Mahesh Sharma is the present Lok Sabha MP of Gautam Buddha Nagar, while Pankaj Singh is the present MLA of Noida

Noida was ranked as the Best City in Uttar Pradesh and the Best City in Housing in all of India in "Best City Awards" conducted by ABP News in 2015. Noida replaced Mumbai as the second-best realty destination, according to an analyst report. Roads in Noida are lined by trees and it is considered to be India's greenest city with nearly 50% green cover, the highest of any city in India.It's GDP is estimated to be around $25 Billion as of 2019.

With it's diverse culture , comes diverse food items. There are many restaurants in New Delhi City, each belonging to different categories like Chinese , Italian , French etc. Noida is also a hub for food , it has multiple mall and resturants.Many sectors and ares are dedicated to food places and they cover diverse cuisine

So as part of this project , we will list and visualise all major parts of Noida and try to answer the following questions

# Questions that can be asked using the above-mentioned datasets

- What is best location in Noida for South Indian ?

- Which areas have large number of South Indian Resturant Market ?

- Which all areas have less number of resturant ?

- Which is the best place to stay if I prefer South Indian Cuisine ?

- What places are have best restaurant in Noida?

# Data

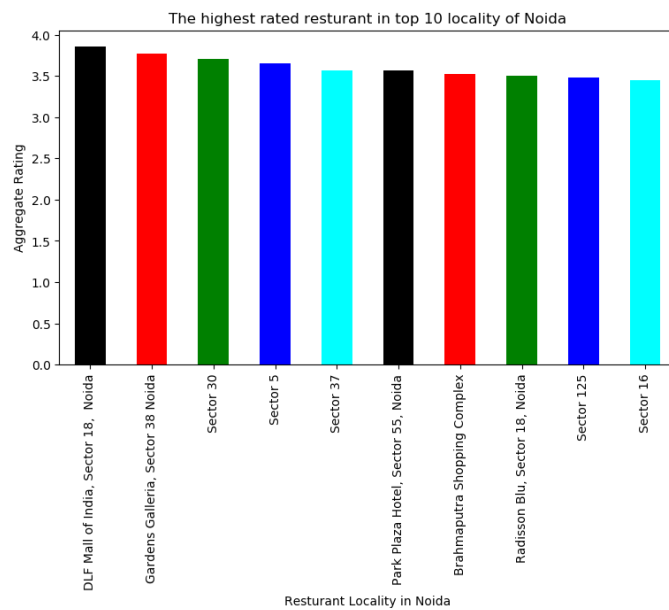Nitesh Singh

For this project we need the following data :

- Noida Restaurants data that contains list Locality, Restaurant name, Rating along with their latitude and longitude.

- Data source : [Zomato kaggel dataset](#)

- Description : This data set contains the required information. And we will use this data set to explore various locality of noida city.

- Nearby places in each locality of noida city.

- Data source : [Fousquare API](#)

- Description : By using this api we will get all the venues in each neighborhood.
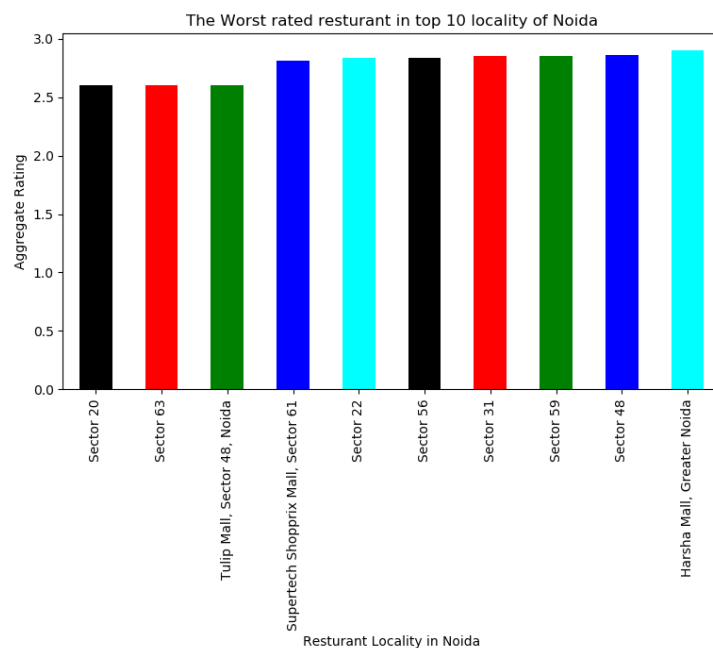
# Approach

- Collect the Noida city data from [Zomato kaggel dataset](#)

- Using FourSquare API we will find all venues for each neighborhood.

- Filter out all venues that are nearby by locality.

- Using aggregative rating for each resturant to find the best places.

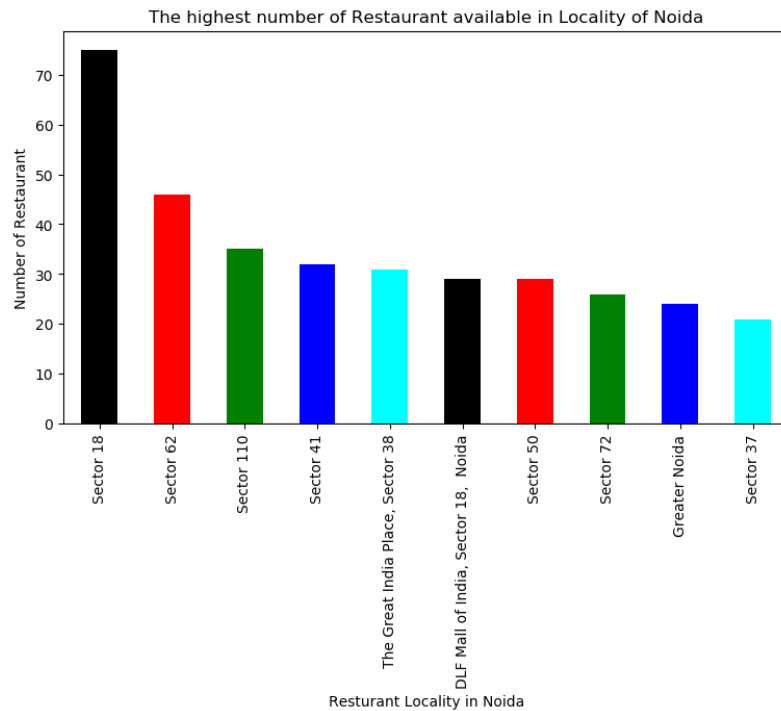- Visualize the Ranking of neighborhoods using folium library(python)

# Results

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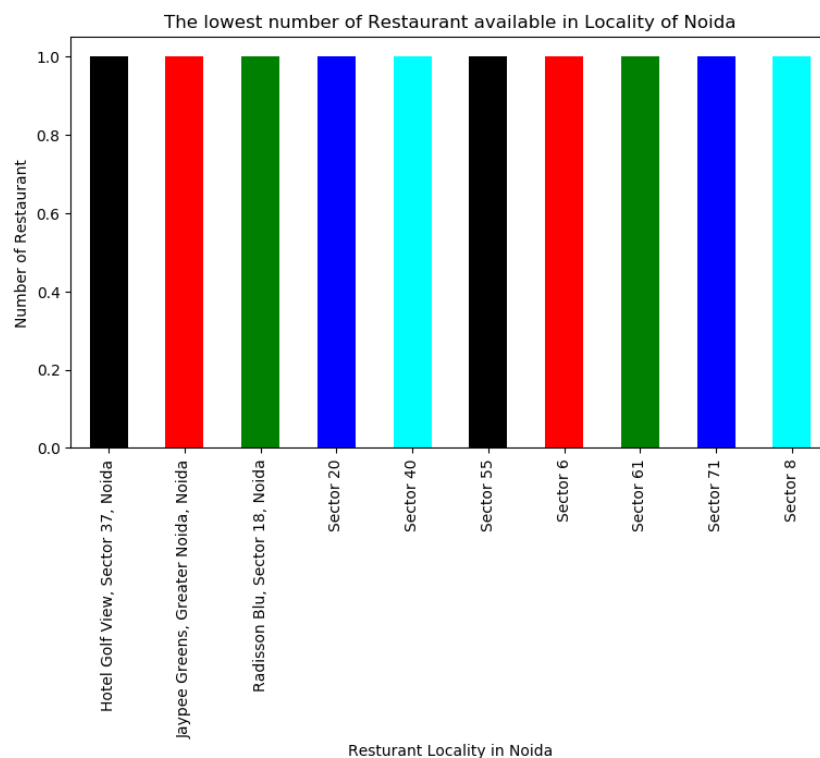Places with Highest rated restaurants in Noida

The highest rated resturant in top 10 locality of Noida

# Places are have worst restaurants in Noida



The Worst rated resturant in top 10 locality of Noida

# Place are suitable for foodie in Noida

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The highest number of Restaurant available in Locality of Noida



# Place are not suitable for foodie in Noida

The lowest number of Restaurant available in Locality of Noida



# Cluster of Places in Noida based on restaurant data
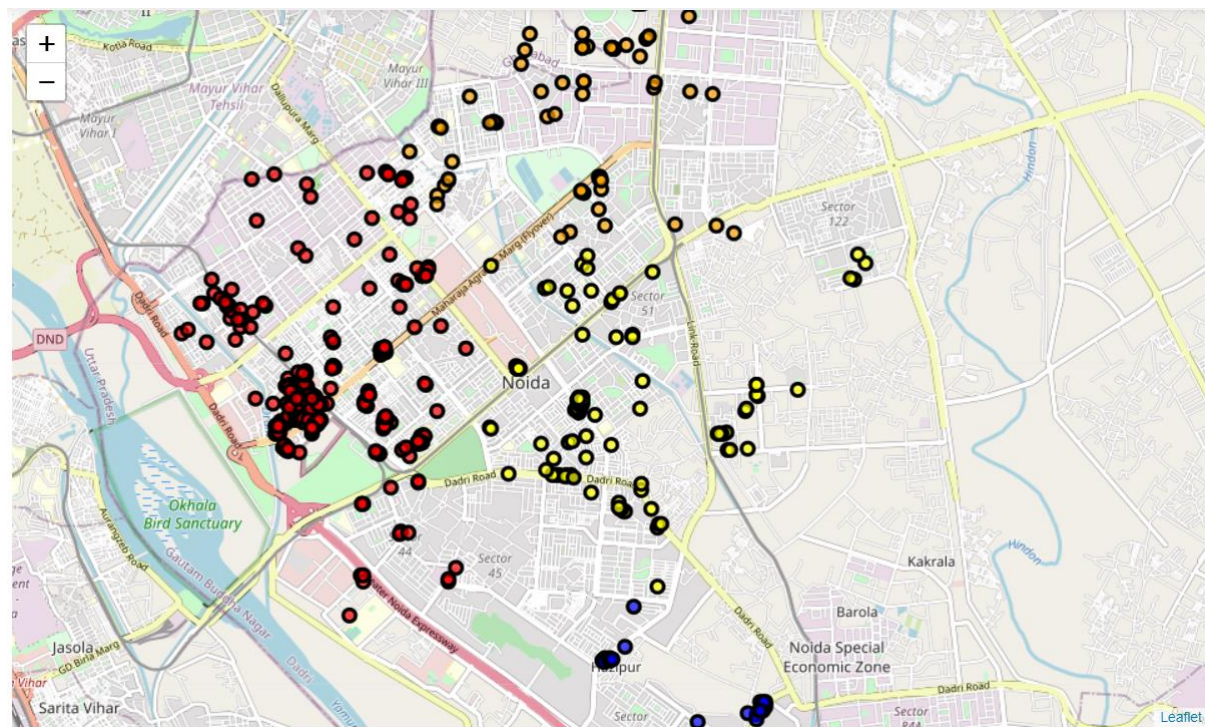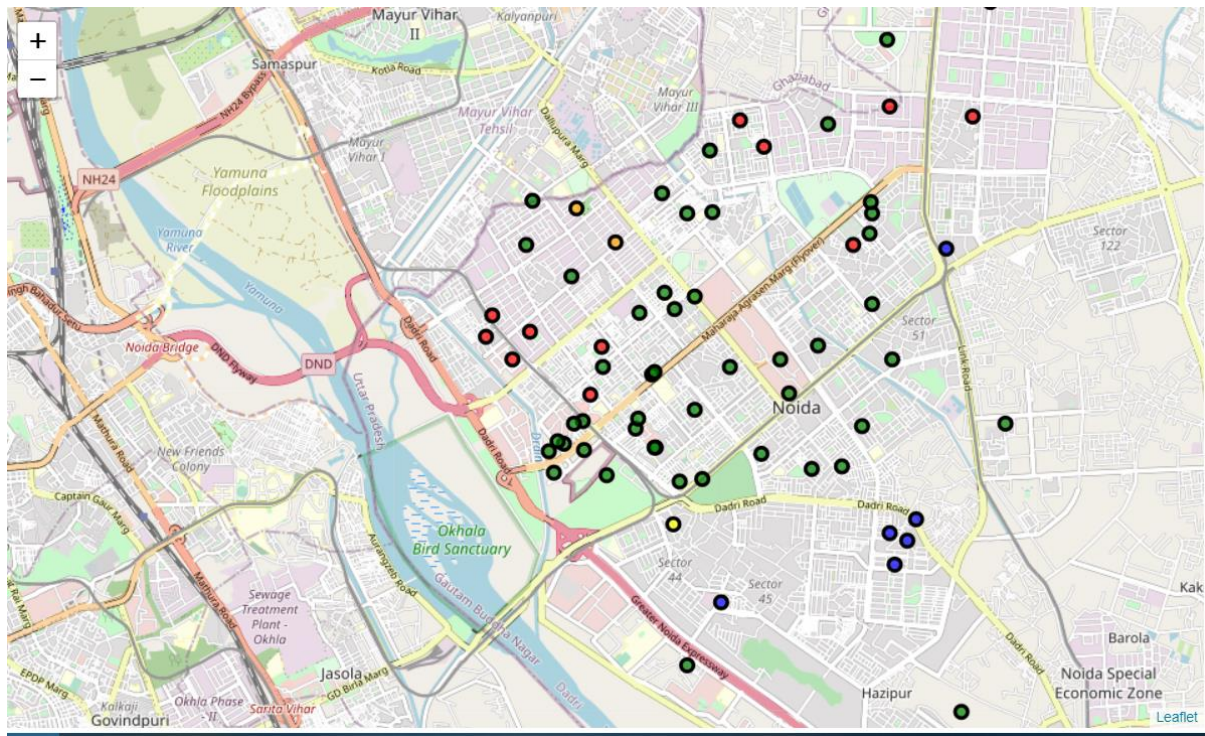
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| | Lat | Agg_Rating | Comments | No_of_Votes | Cluster Labels | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 28.462675 | 3.150000 | Average | 116 | 0 | Hotel | Indian Restaurant | Monument / Landmark | Shopping Mall | Golf Course |
| 12 | 28.464167 | 3.300000 | Average | 29 | 0 | Hotel | Golf Course | Diner | Food | Coffee Shop |
| 16 | 28.603867 | 3.566667 | Average, Very Good | 285 | 0 | Hotel | Indian Restaurant | Vegetarian / Vegan Restaurant | Food | Convenience Store |
| 24 | 28.581075 | 3.086667 | Average, Good | 676 | 0 | Indian Restaurant | Fast Food Restaurant | Hotel | Sandwich Place | BBQ Joint |
| 25 | 28.578363 | 3.442857 | Average, Good, Very Good | 1971 | 0 | Fast Food Restaurant | Hotel | Sandwich Place | Train Station | BBQ Joint |

| | Lat | Agg_Rating | Comments | No_of_Votes | Cluster Labels | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 28.570019 | 3.525000 | Average, Good | 1075 | 1 | Hotel Bar | BBQ Joint | Bakery | South Indian Restaurant | Snack Place |
| 2 | 28.568185 | 3.100000 | Average, Good, Poor | 1247 | 1 | Indian Restaurant | Coffee Shop | Chinese Restaurant | Clothing Store | Fast Food Restaurant |
| 3 | 28.567267 | 3.858621 | Average, Excellent, Good, Very Good | 8242 | 1 | Indian Restaurant | Coffee Shop | Café | Fast Food Restaurant | Clothing Store |
| 4 | 28.577435 | 3.300000 | Average | 94 | 1 | Food Truck | Hotel | Convenience Store | Pizza Place | Bakery |
| 5 | 28.567820 | 3.214286 | Average, Good | 747 | 1 | Bakery | Café | Flea Market | Metro Station | South Indian Restaurant |

| | Lat | Agg_Rating | Comments | No_of_Votes | Cluster Labels | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue |
|---|---|---|---|---|---|---|---|---|---|---|
| 48 | 28.549290 | 3.100000 | Average | 133 | 2 | ATM | Gym / Fitness Center | Food | Convenience Store | Department Store |
| 49 | 28.553746 | 3.200000 | Average | 29 | 2 | Gym / Fitness Center | Astrologer | Bakery | Vegetarian / Vegan Restaurant | Food & Drink Shop |
| 50 | 28.556586 | 2.862500 | Average, Poor | 115 | 2 | ATM | Spa | Gym / Fitness Center | Pharmacy | Health & Beauty Service |
| 51 | 28.559173 | 3.233333 | Average, Good | 148 | 2 | ATM | Health & Beauty Service | Gym / Fitness Center | Pharmacy | Flea Market |
| 67 | 28.591578 | 2.900000 | Average | 6 | 2 | Park | Auto Garage | Vegetarian / Vegan Restaurant | Food | Convenience Store |

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# Conclusion

- The best restaurants are available in **DLF Mall of India**

- The worst restaurants are available in **Sector 20**

- **Sector 18** is the best places for foodie person to stay there and Sector 37 worst

- **Sector 18 & Sector 62** is the best place for South Indian restaurant.

- **Bramhmaputra** has the best South Indian resturants

Cluster 1:

- It is most recommended for Indian Restaurant.

Cluster 2:

- It is most recommended for Coffee Shop and Fast Foods like Pizza

Cluster 3

- It is most recommended for Gym and Spas

Cluster 4:

- It is most recommended for the bus stops.

Cluster 5:

- It is most recommended for food Trucks

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