Exploring Bangalore for New Restaurant Business
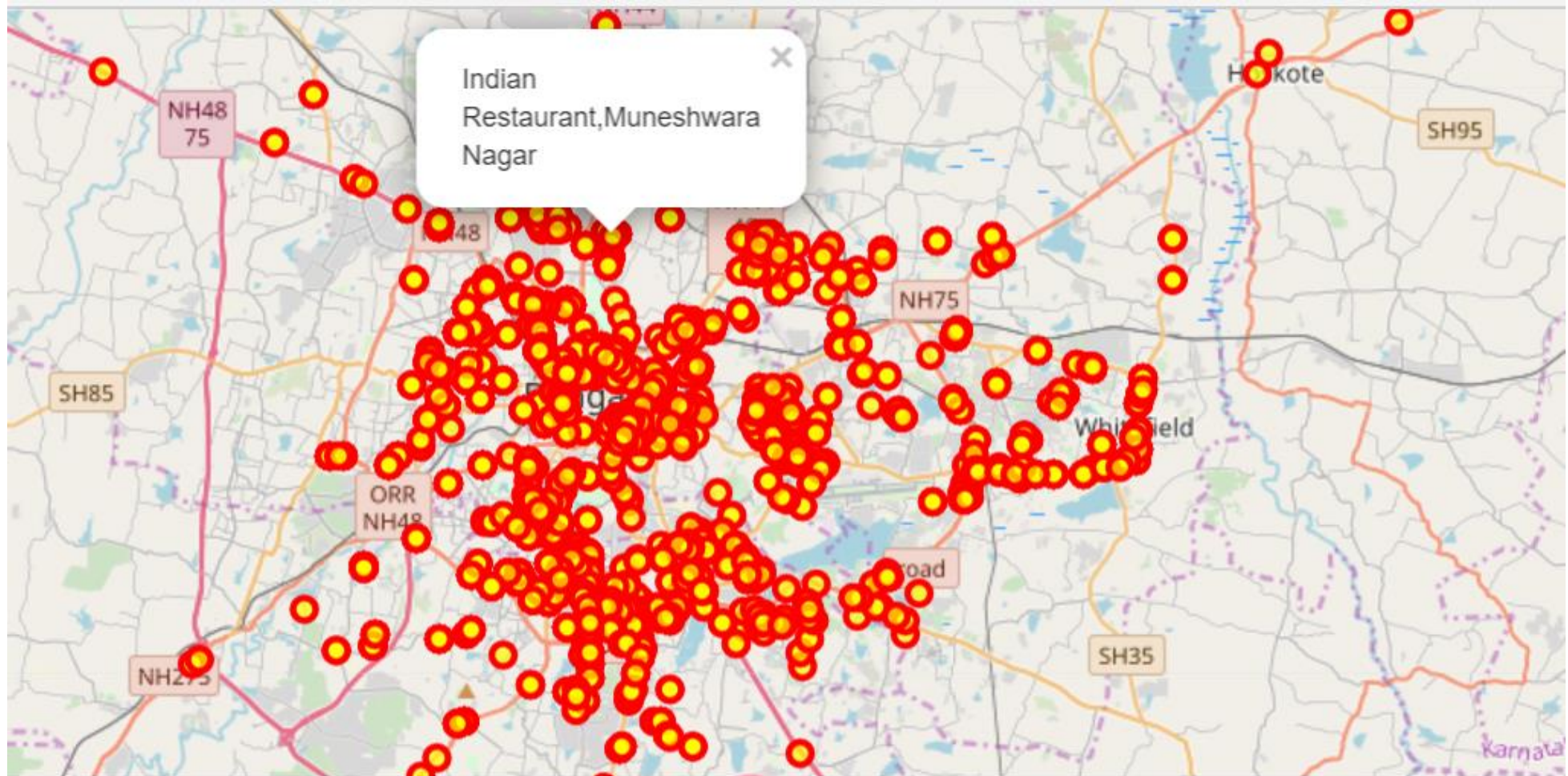
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Understanding different neighborhoods of Bangalore

- ❖ Population distribution is different in different neighborhoods of Bangalore. Population density in some neighborhoods is very high and in some neighborhoods its very low.

- ❖ The preference for restaurants is also different in different neighborhoods.

- ❖ The restaurants in Bangalore are of different categories like Indian Restaurant, Chinese Restaurant, Pizza Places, Vegetarian / Vegan Restaurant etc.

- ❖ Indian Restaurant category is very common in most of the neighborhoods.

Data acquisition and cleaning

❖ Bangalore's population data is available on Bruhat Bengaluru Mahanagara Palike (BBMP) official website. http://bbmp.gov.in/documents/10180/460906/BBMPR_ward_master_BBMP+Restructuring+03-08-2015.pdf

❖ The population data is collected every ten years in India by Census of India. Last census was conducted in 2011 and same data is available on BBMP official website for Bangalore.

❖ After removing unnecessary data, the cleaned data sheet in available here.

❖ There are 198 samples and 2 features in cleaned data.

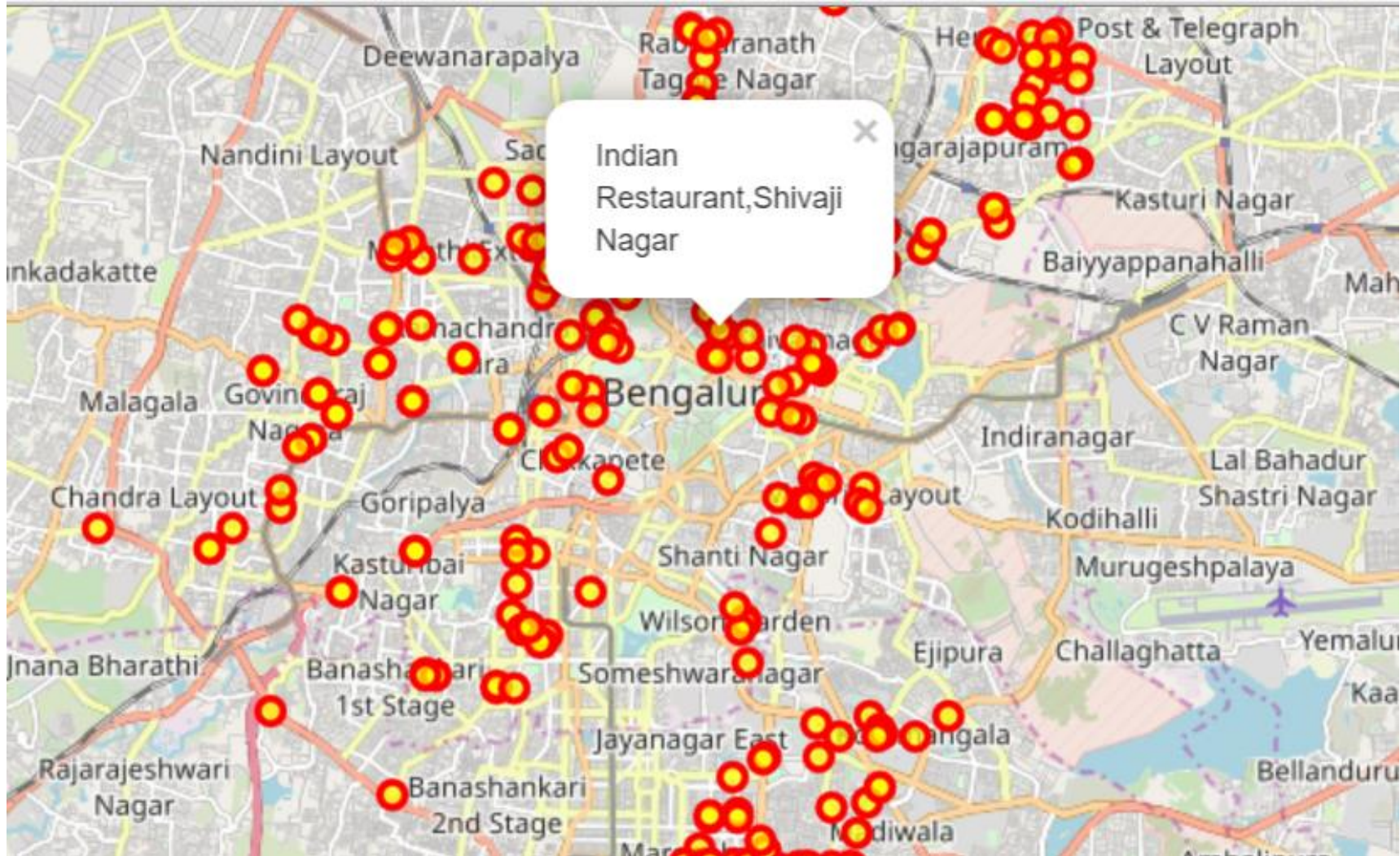# Plotting the venues of Bangalore on map

Relationship between density and number of restaurants

❖ Sample for restaurants in top 10 most dens neighborhoods of Bangalore

Neighbourhood	Venue_Category	Population_density_(persons_per_sq_km)	Venue_Category_Count
Padarayanapura	Asian Restaurant	118059	2
Padarayanapura	Fast Food Restaurant	118059	6
Padarayanapura	Indian Restaurant	118059	17
Padarayanapura	Restaurant	118059	1
Padarayanapura	Seafood Restaurant	118059	1
Kempapura Agrahara	Indian Restaurant	113291	2
Kempapura Agrahara	Himalayan Restaurant	113291	1
Kempapura Agrahara	Vegetarian / Vegan Restaurant	113291	1
Kempapura Agrahara	Karnataka Restaurant	113291	1
Nilasandra	Kerala Restaurant	94287	1
Nilasandra	Korean Restaurant	94287	1
Nilasandra	Mediterranean Restaurant	94287	1
Nilasandra	Southern / Soul Food Restaurant	94287	1

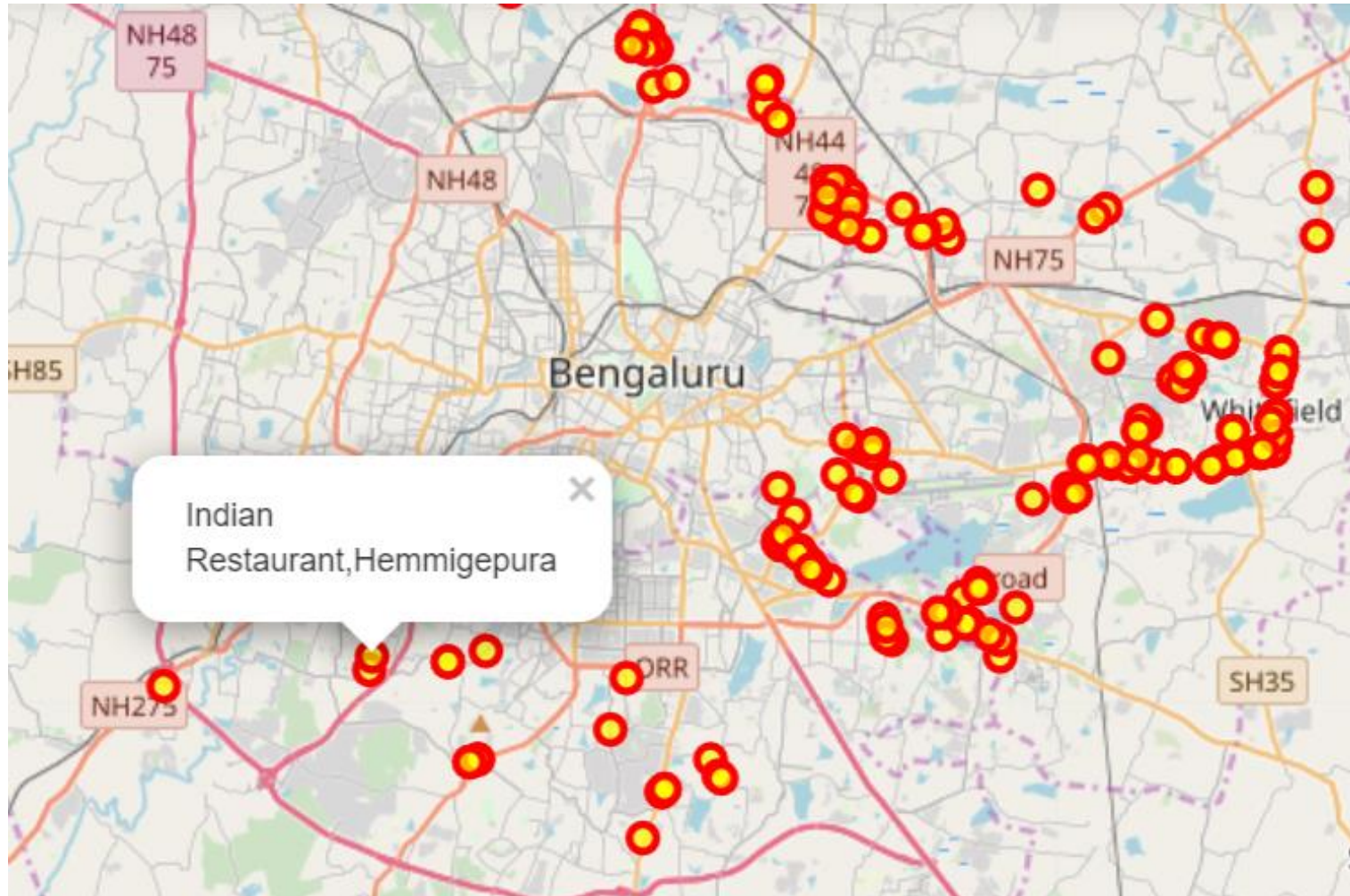# Plotting of restaurants in top 10 most dens neighborhoods of Bangalore

Relationship between density and number of restaurants 2

❖ Sample for restaurants in top 10 least dens neighborhoods of Bangalore

Neighbourhood	Venue_Category	Population_density_(persons_per_sq_km)	Venue_Category_Count
Hemmigepura	Indian Restaurant	1652	6
Hemmigepura	Indian Chinese Restaurant	1652	1
Hemmigepura	Restaurant	1652	3
Hemmigepura	South Indian Restaurant	1652	1
Hemmigepura	Vegetarian / Vegan Restaurant	1652	1
Hemmigepura	Fast Food Restaurant	1652	1
Hemmigepura	Chinese Restaurant	1652	1
Varthur	Eastern European Restaurant	1929	2
Varthur	Indian Restaurant	1929	12
Varthur	Andhra Restaurant	1929	2
Varthur	American Restaurant	1929	1
Varthur	Italian Restaurant	1929	2
Varthur	Kerala Restaurant	1929	2

Plotting of restaurants in top 10 least dens neighborhoods of Bangalore

Observation

❖ Total restaurants count in top 10 most dens neighborhoods vs Total restaurants count in top 10 least dens neighborhoods

Neighbourhood	Population_density_(persons_per_sq_km)
Bapuji Nagar	72549
Dayananda Nagar	80035
Gurappana Palya	72068
Kadugondanahalli	65514
Kempapura Agrahara	113291
Muneshwara Nagar	74511
Nilasandra	94287
Padarayanapura	118059
Rayapuram	81770
Shivaji Nagar	87856

	Neighbourhood	Population_density_(persons_per_sq_km)	
23	Agaram	3345	31
39	Anjanapura	3997	16
48	Bellanduru	3041	25
47	Hagadur	4003	32
5	Hemmigepura	1652	14
43	Hudi	3349	26
25	Jakkuru	2215	19
27	Kadugodi	3934	35
29	Kempegowda	3182	15
38	Varthur	1929	41

❖ Neighborhoods having no venues of any category

	Neighbourhood	Population_density_(persons_per_sq_km)	Latitude	Longitude
38	Chokkasandra	15752	13.187971	77.901090
33	Gangenahalli	22226	12.983417	77.391874

Conclusion

❖ The number of restaurants in top 10 least dens areas are very high compare to number of restaurants in top 10 most dens areas. It means there are opportunities to open new restaurants in dens areas.

❖ Kempapura Agrahara having population density of 113291 person/sq-km has only 5 restaurants which is very less compare to its nearby neighborhood Padarayanapura (population density 118059 person/sq-km) which has 27 restaurants. Kempapura Agrahara can also be a good location to start a new restaurant business.

❖ The neighborhoods having no venues of any category could be potential locations to start a new business.