French Restaurant in Bangalore, Indian

IDEAL LOCATIONS TO OPEN A FRENCH RESTAURANT IN BANGALORE

Introduction

▶ **Bangalore** is the fastest growing city of **Asia** and is the **Fifth largest city in India**, **Bangalore** is

▶ the Silicon Valley of India and thus boost a population which lies in the age group of **20-45 years**.

▶ **Bangalore** has a high density of Restaurant

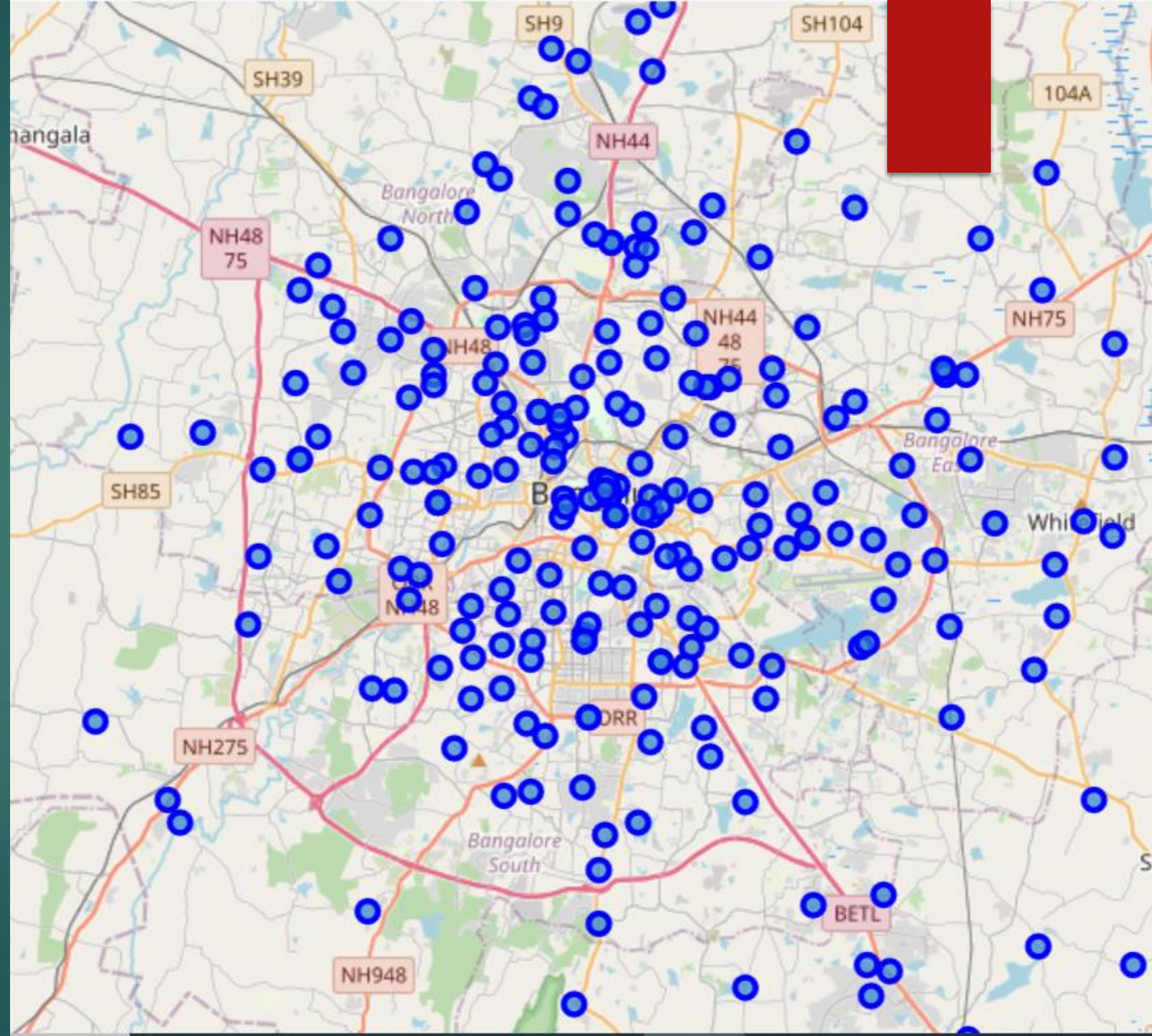▶ The population of Bangalore has high disposable income, but they are concentrated to some Neighborhoods

Problem Statement

- Finding right locations for opening a new restaurant is crucial for the success of the statement

- Identifying a list of optimal locations to open a New French Restaurant will be beneficial to all stakeholders who wants to open a French restaurant in Bangalore
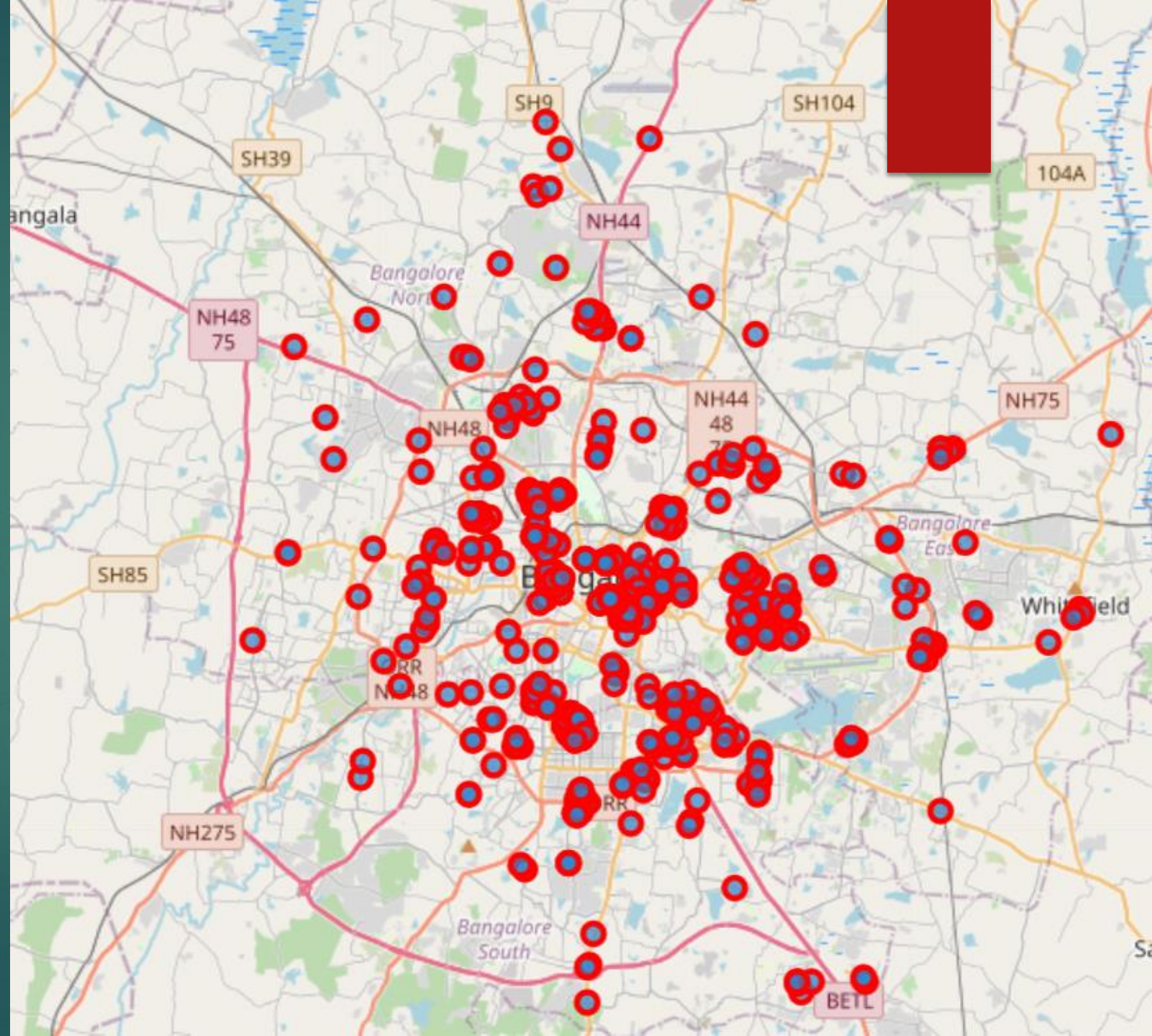
Data acquisition and cleaning

- List of Neighborhoods of Bangalore was obtained from www.finkode.com

- The locations data was obtained using Google Maps API geocoding.

- Restaurant data was obtained using Foursquare API

- We got 270 neighborhoods in Bangalore, 553 unique restaurants and 47 unique restaurants category

Plot of Neighborhoods of Bangalore
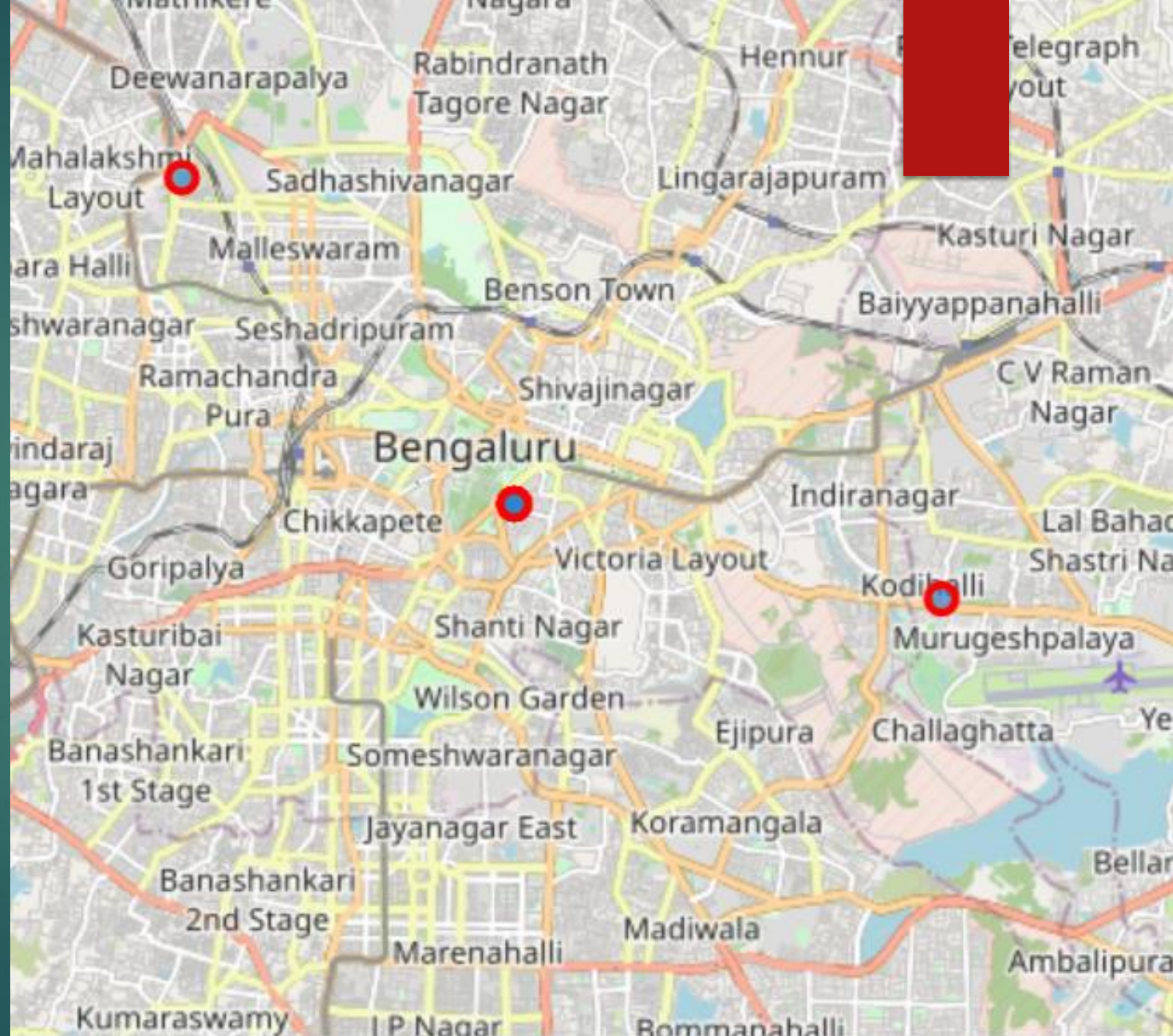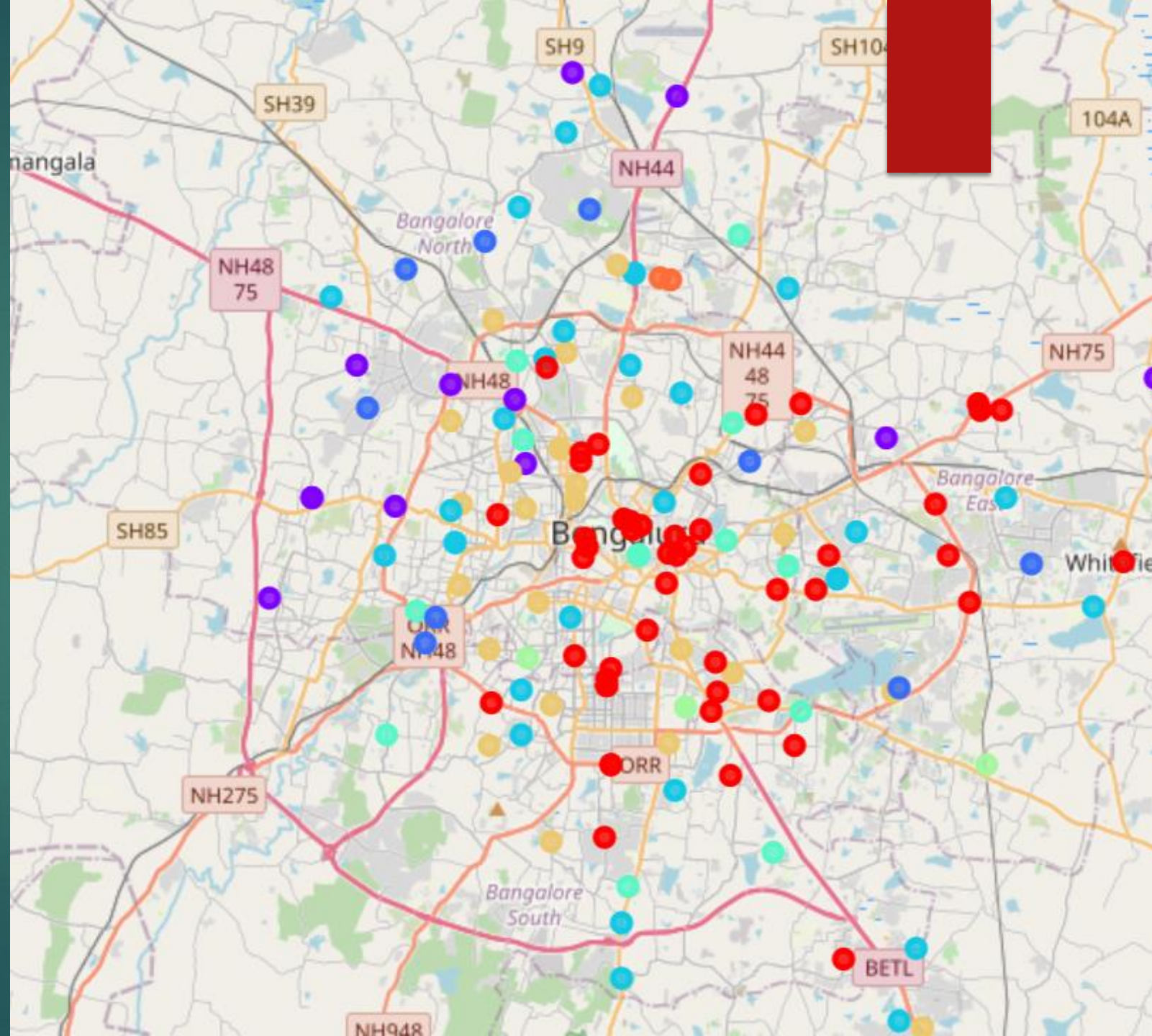
Plot of Restaurants in Bangalore

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
192	Bangalore City	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant
286	Bangalore International Airport	13.198635	77.706593	Café Noir	13.200013	77.708640	French Restaurant
367	Bestamaranahalli	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant
492	Chudenapura	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant
1037	Jalavayuvihar	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant
1717	Malkand Lines	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant
1868	Milk Colony	13.007876	77.557630	Cafe Noir	13.011400	77.555295	French Restaurant
1953	NAL	12.960894	77.651490	Le Cirque Signature	12.960797	77.648597	French Restaurant
2421	Venkatarangapura	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant

Neighborhoods which contains French Resturants

The three French Restaurants in Bangalore

Different Clusters of Neighborhood

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue_x	Venue Latitude	Venue Longitude	Venue Category	Venue_y	label
176	Bangalore City	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4
265	Bangalore International Airport	13.198635	77.706593	Café Noir	13.200013	77.708640	French Restaurant	8	4
342	Bestamaranahalli	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4
459	Chudenapura	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4
970	Jalavayuvihar	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4
1625	Malkand Lines	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4
1768	Milk Colony	13.007876	77.557630	Cafe Noir	13.011400	77.555295	French Restaurant	13	4
1845	NAL	12.960894	77.651490	Le Cirque Signature	12.960797	77.648597	French Restaurant	8	0
2281	Venkatarangapura	12.971599	77.594563	Café Noir	12.971995	77.596001	French Restaurant	18	4

Clusters of Neighborhood which has French Restaurant

Conclusion

There are 18 Neighborhoods in Cluster 4

We are selecting only those Neighborhoods that belongs to Cluster 4 and has medium density of restaurants i.e., the number of restaurants is greater than equal to 18

	Neighborhood	latitude_x	longitude_x	Venue_x	label_x	latitude_y	longitude_y	Venue_y	label_y
0	Bangalore City	12.971599	77.594563	18	4	12.971599	77.594563	18	4
1	Bestamaranahalli	12.971599	77.594563	18	4	12.971599	77.594563	18	4
2	Chudenapura	12.971599	77.594563	18	4	12.971599	77.594563	18	4
3	H.A.L II Stage H.O	12.968478	77.642574	20	4	12.968478	77.642574	20	4
4	Jalavayuvihar	12.971599	77.594563	18	4	12.971599	77.594563	18	4
5	Malkand Lines	12.971599	77.594563	18	4	12.971599	77.594563	18	4
6	Venkatarangapura	12.971599	77.594563	18	4	12.971599	77.594563	18	4

Optimal Locations