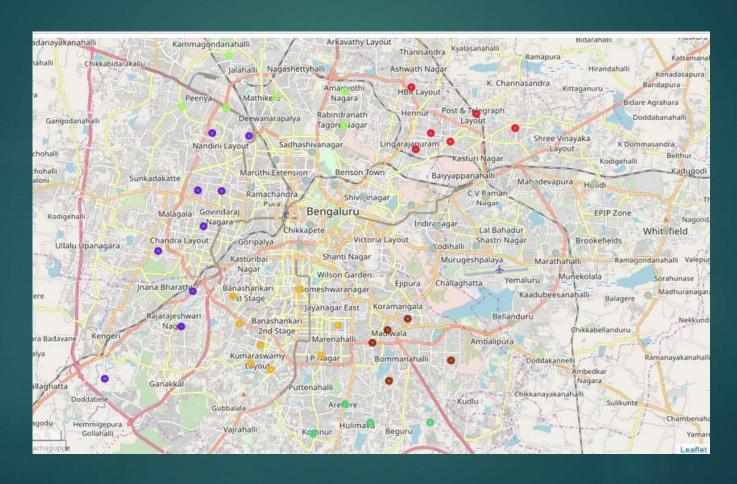
RESTAURANT RECOMMENDATION SYSTEM

Bangalore map



Data Frames showing Population And Average income for locations in Bangalore

	Borough	Neighborhoods	Population	
0	Central	Cantonment area	866377	
1	Central	Domlur	743186	
2	Central	Indiranagar	474289	
3	Central	Jeevanbheemanagar	527874	
4	Central	Malleswaram	893629	

	Borough	Neighborhoods	AverageIncome
0	Central	Cantonment area	18944.099792
1	Central	Domlur	56837.022198
2	Central	Indiranagar	41991.817435
3	Central	Jeevanbheemanagar	6667.447632
4	Central	Malleswaram	53270.063892

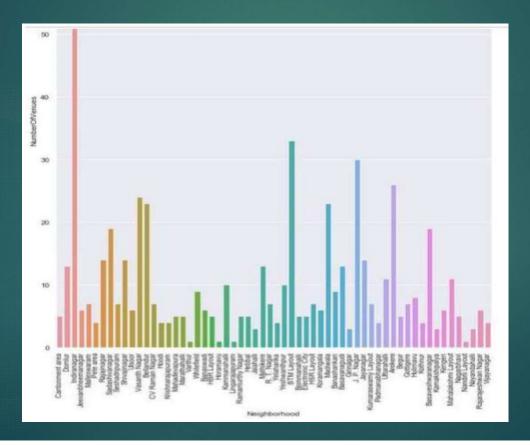
Dataframe showing Longitudes and latitudes for Different locations in Bangalore

	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			SA STATE OF THE ST	2 (0.48.5.35.4	
Borough	Neighborhoods	Latitude	Longitude	Population	City	AverageIncome
Central	Cantonment area	12.972442	77.580643	866377	Bangalore	18944.099792
Central	Domlur	12.960992	77.638726	743186	Bangalore	56837.022198
Central	Indiranagar	12.971891	77.641151	474289	Bangalore	41991.817435
Central	Jeevanbheemanagar	12.962900	77.659500	527874	Bangalore	6667.447632
Central	Malleswaram	13.003100	77.564300	893629	Bangalore	53270.063892
Central	Pete area	12.962700	77.575800	730999	Bangalore	50712.430215
Central	Rajajinagar	12.990100	77.552500	981362	Bangalore	60967.535874
Central	Sadashivanagar	13.006800	77.581300	662625	Bangalore	59943.541564
Central	Seshadripuram	12.993500	77.578700	396862	Bangalore	58407.090338
Central	Shivajinagar	12.985700	77.605700	77836	Bangalore	55850.962099
Central	Ulsoor	12.981700	77.628600	656726	Bangalore	41007.219536
Central	Vasanth Nagar	12.991100	77.592000	942711	Bangalore	26168.448092
Eastern	Bellandur	12.926000	77.676200	208094	Bangalore	7227.731930
Eastern	CV Raman Nagar	12.985500	77.663900	122714	Bangalore	54335.368712

DataFrame Showing Venue details, Category For Locations in Bangalore Accessed through FourSquare API

	Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	100000000000000000000000000000000000000
0	Cantonment area	Central	12.972442	77.580643	Hotel Fishland	12.975569	77.578592	Seafood Restaurant
1	Cantonment area	Central	12.972442	77.580643	Vasudev Adigas	12.973707	77.579257	Indian Restaurant
2	Cantonment area	Central	12.972442	77.580643	Adigas Hotel	12.973554	77.579161	Restaurant
3	Cantonment area	Central	12.972442	77.580643	Sapna Book House	12.976355	77.578461	Bookstore
4	Cantonment area	Central	12.972442	77.580643	Kamat Yatrinivas	12.975985	77.578125	Indian Restaurant

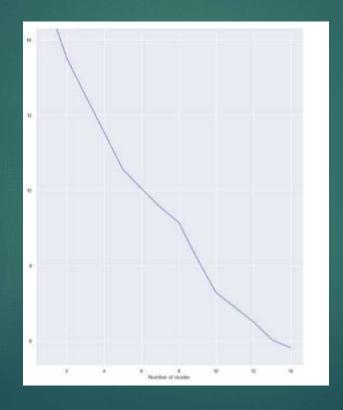
Graph Showing Number of Venues For Locations In Bangalore



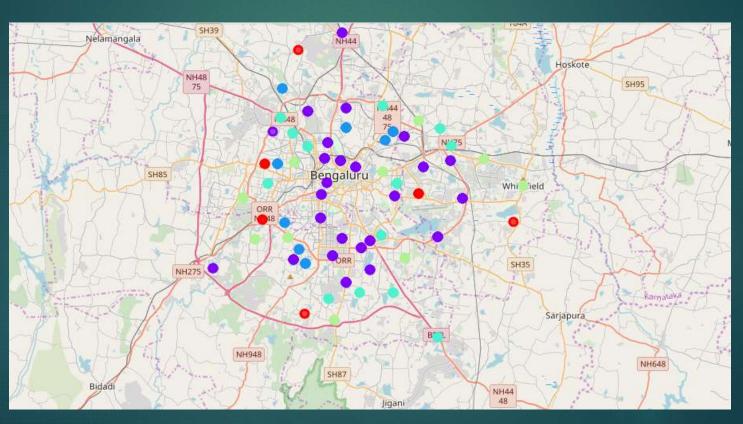
Venues Datails and Category of Different Location In Bangalore

	Anjanapura					
		Venue	Frequency			
0	Venue Cat		1.0			
1	Venue Category Middle Eastern R		0.0			
2	Venue Category Performing A		0.0			
3	Venue Cate		0.0			
4	Venue Category_Paper / Office Suppl		0.0			
-	venue dadegory_raper / office bappi	TCD DOOLC	0.0			
<u>_</u>	Arekere					
		Frequency				
_						
0	Venue Category_Indian Restaurant	0.19				
1	Venue Category_Sporting Goods Shop	0.12				
2	Venue Category_Department Store	0.08				
3	Venue Category_Pizza Place	0.08				
4	Venue Category_Bus Line	0.04				
	BTM Layout					
		Venue	Frequency			
0	Venue Category Indian R	estaurant	0.21			
1	Venue Category_Snack Place 0.09					
2	Venue Category_Ice C		0.09			
3	Venue Category Vegetarian / Vegan R		0.06			
4	Venue Category Pi		0.06			

Graph showing Number of Clusters



Map showing Clustered Venues For Locations In Bangalore



DataFrame showing Most Common Venues In different Location In Bangalore

		index	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most (
ļ	0	61	Banashankari	Venue Category_Clothing Store	Venue Category_Café	Venue Category_Accessories Store	Venue Category_North Indian Restaurant	Venue Category_Pizza Place	Venue Category_Indian Restaurant	Venue Category_Misce Shop
	1	62	Banashankari	Venue Category_Clothing Store	Venue Category_Café	Venue Category_Accessories Store	Venue Category_North Indian Restaurant	Venue Category_Pizza Place	Venue Category_Indian Restaurant	Venue Category_Misc∈ Shop
	2	63	Banashankari	Venue Category_Clothing Store	Venue Category_Café	Venue Category_Accessories Store	Venue Category_North Indian Restaurant	Venue Category_Pizza Place	Venue Category_Indian Restaurant	Venue Category_Misc∈ Shop
	3	64	Banashankari	Venue Category_Clothing Store	Venue Category_Café	Venue Category_Accessories Store	Venue Category_North Indian Restaurant	Venue Category_Pizza Place	Venue Category_Indian Restaurant	Venue Category_Misce Shop

DataFrame Showing Results loactions which has Similar type of restaurants as "Whitefield"

	Neighborhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	Ranking
0	Banashankari	Venue Category_Clothing Store	Venue Category_Café	Venue Category_Accessories Store	[0.8234029969357847]
1	Gottigere	Venue Category_Indian Restaurant	Venue Category_Pharmacy	Venue Category_Department Store	[0.43352975051479636]
2	HSR Layout	Venue Category_Badminton Court	Venue Category_Pizza Place	Venue Category_Café	[0.6193945016263558]