

RESTAURANT RECOMMENDER SYSTEM

IBM CAPSTONE PROJECT.

METHODOLOGY

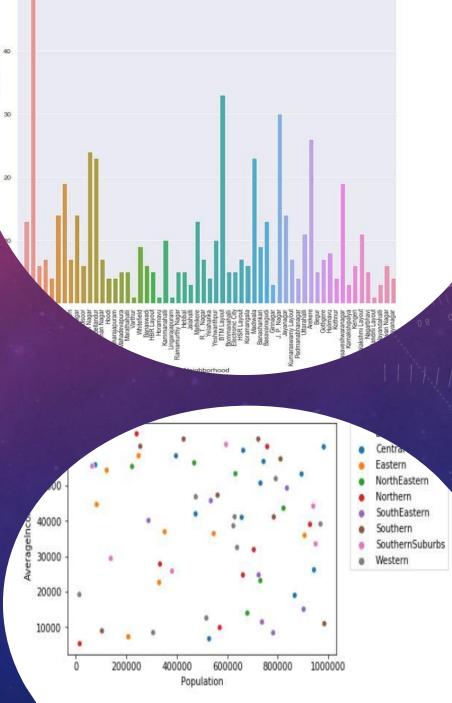


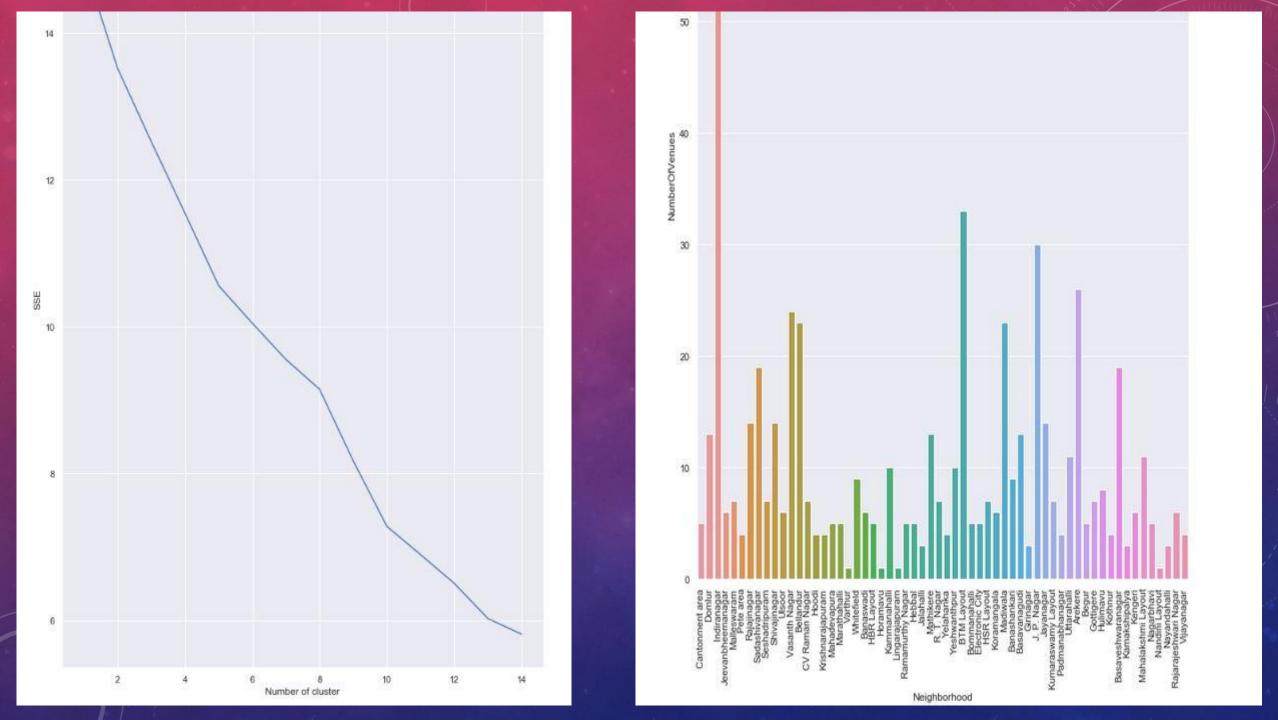
Recommender System

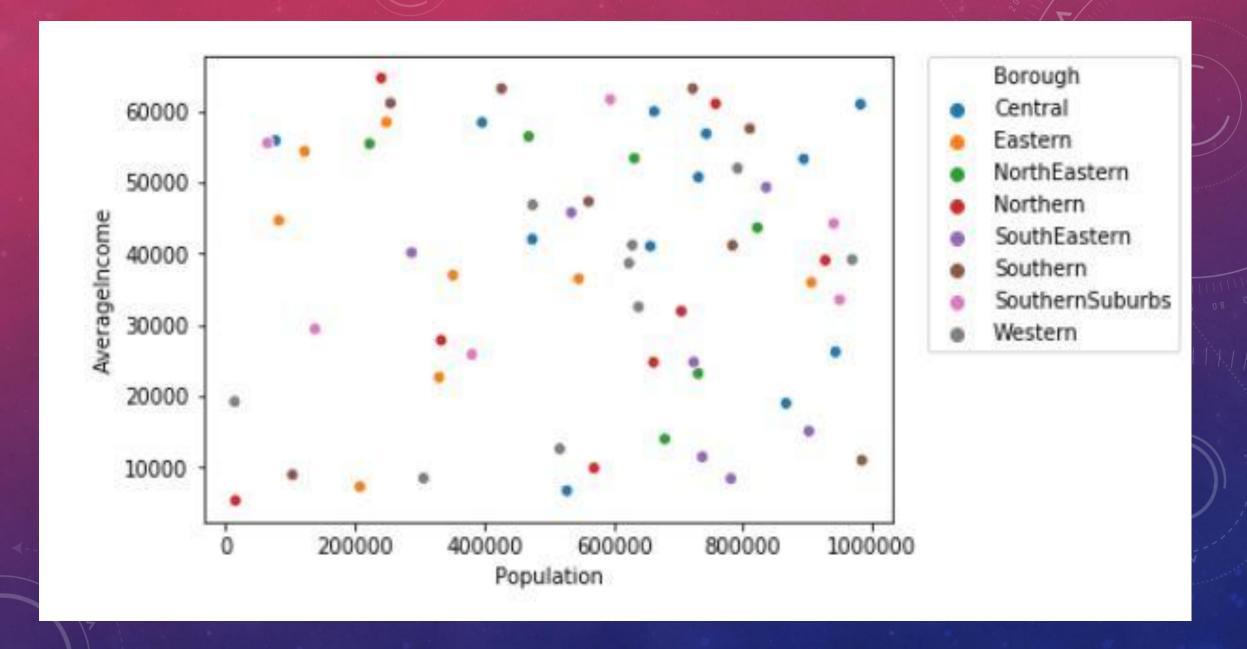












DATASETS

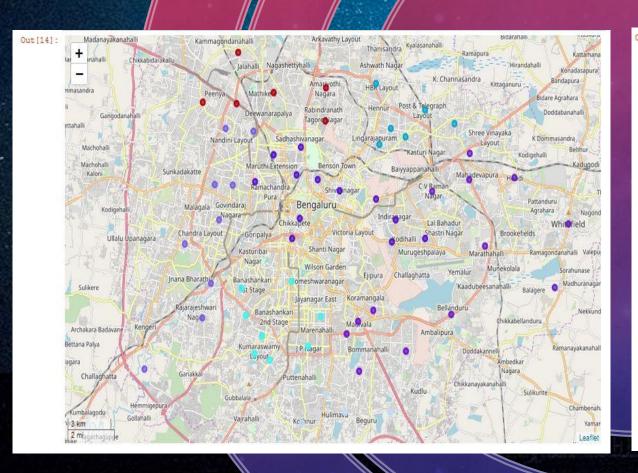
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	Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Cantonment area	Central	12.972442	77.580643	Hotel Fishland	12.975569	77.578592	Seafood Restaurant
1	Cantonment area	Central	12.972442	77.580643	Sapna Book House	12.976355	77.578461	Bookstore
2	Cantonment area	Central	12.972442	77.580643	Vasudev Adigas	12.973707	77.579257	Indian Restaurant
3	Cantonment area	Central	12.972442	77.580643	Adigas Hotel	12.973554	77.579161	Restaurant
4	Cantonment area	Central	12.972442	77,580643	Kamat Yatrinivas	12.975985	77.578125	Indian Restaurant

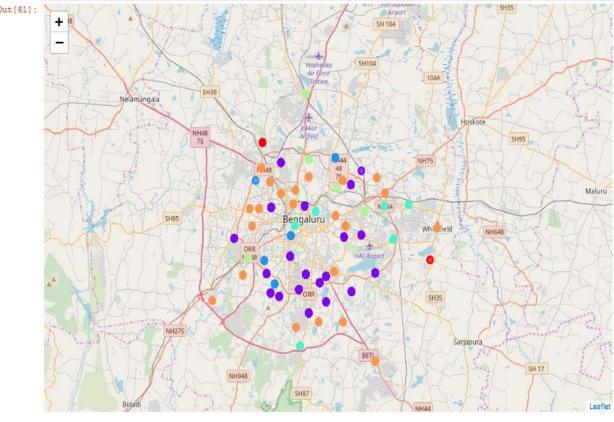
Borough	Neighborhoods	AverageIncome	Normalized_income
Central	Cantonment area	18944.099792	0.293051
Central	Domlur	56837.022198	0.879225
Central	Indiranagar	41991.817435	0.649581
Central	Jeevanbheemanagar	6867,447632	0.103140
Central	Malleswaram	53270.063892	0.824047
	Central Central Central	Central Cantonment area Central Domlur Central Indiranagar Central Jeevanbheemanagar	Central Cantonment area 18944.099792 Central Domlur 56837.022198 Central Indiranagar 41991.817435 Central Jeevanbheemanagar 6867.447632

3	Borough	Neighborhoods	Population	Normalized_population
0	Central	Cantonment area	866377	0.880810
1	Central	Domlur	743186	0.755587
2	Central	Indiranagar	474289	0.482190
3	Central	Jeevanbheemanagar	527874	0.536668
4	Central	Malleswaram	893629	0.908516

Central	Cantonment area	12.972442	77.580643	
Central	Domlur	12.960992	77.638726	
Central	Indiranagar	12.971891	77.641151	
Central	Jeevanbheemanagar	12.962900	77.659500	
Central	Malleswaram	13.003100	77.564300	
Central	Pete area	12.962700	77.575800	
Central	Rajajinagar	12.990100	77.552500	
Central	Sadashivanagar	13.006800	77.581300	
Central	Seshadripuram	12.993500	77.578700	
Central	Shivajinagar	12.985700	77.605700	

MAPPING AND CLUSTERING





RESULTS AND CONCLUSION

	Venue	Frequency	
0	Venue Category Indian Restaurant	0.23	
1	Venue Category_Sporting Goods Shop	0.15	
2	Venue Category Pizza Place	0.08	
3	Venue Category Department Store	0.08	
4	Venue Category_Liquor Store	0.04	
	BTM Layout	25	55
		Venue	Frequency
0	Venue Category_Indian Re		0.18
1	Venue Category_Sna	ck Place	0.09
2 3	Venue Category_Ice Cr	eam Shop	0.09
	Venue Category Piz	za Place	0.06
4	Venue Category_Vegetarian / Vegan Re	staurant	0.06
	Banashankari		
	Ven	ue Frequ	ency
0	Venue Category_Indian Restaura	nt	0.22
1 2	Venue Category_Ca	fé	0.22
2	Venue Category Men's Sto	re	0.11
3	Venue Category North Indian Restaura		0.11
4	Venue Category Clothing Sto		0.11

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Ranking	3rd Most Common Venue	2nd Most Common Venue	1st Most Common Venue	Neighborhoods	
[0.6426377807870477]	Venue Category_Fast Food Restaurant	Venue Category_Indian Restaurant	Venue Category_loe Cream Shop	Basaveshwaranagar	0
[0.7361321887351776]	Venue Category_Food Court	Venue Category_Indian Sweet Shop	Venue Category_Indian Restaurant	Begur	1
[0.5423513638809381]	Venue Category_Bus Stop	Venue Category_Furniture / Home Store	Venue Category_Outlet Store	Electronic City	2

