

## METHODOLOGY

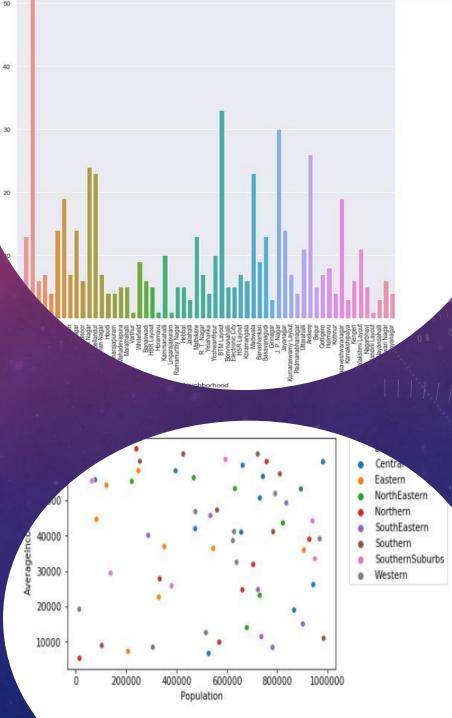


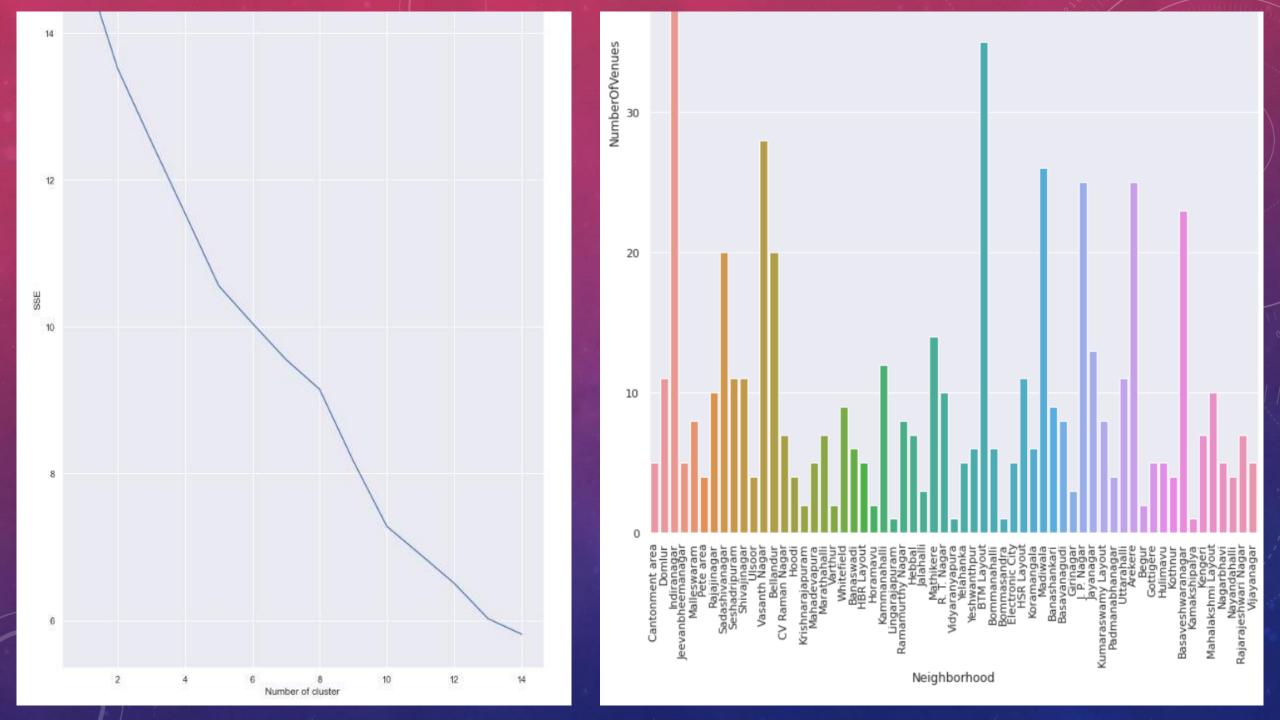
Recommender System

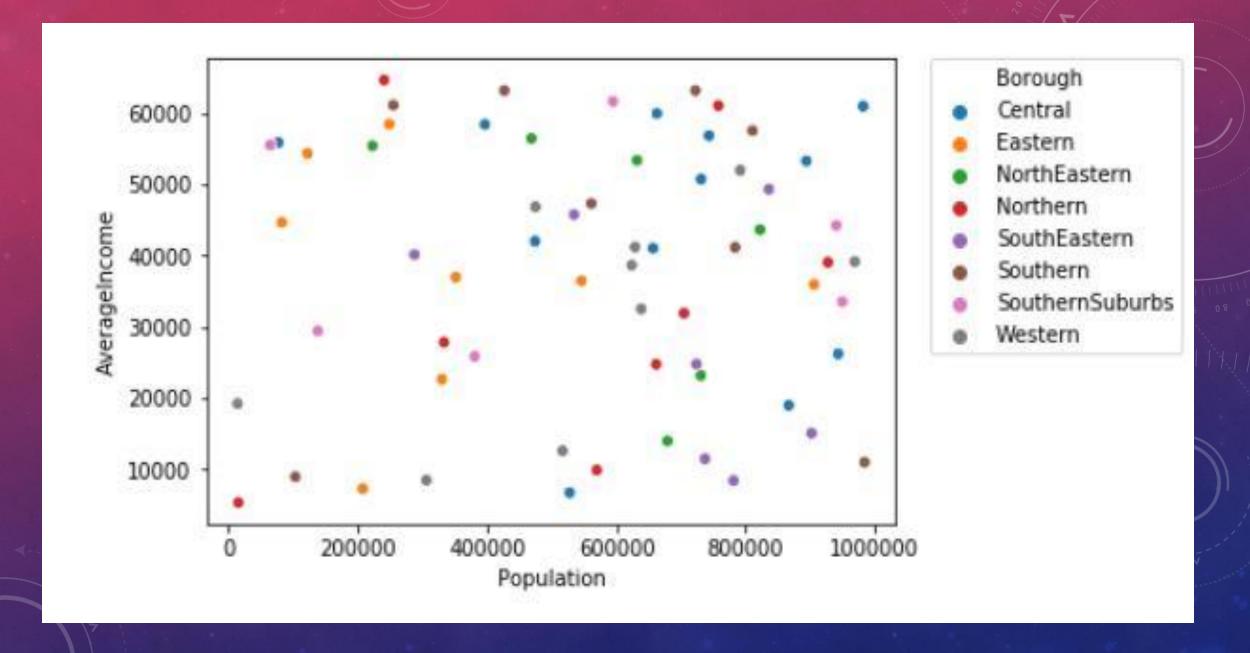












## DATASETS

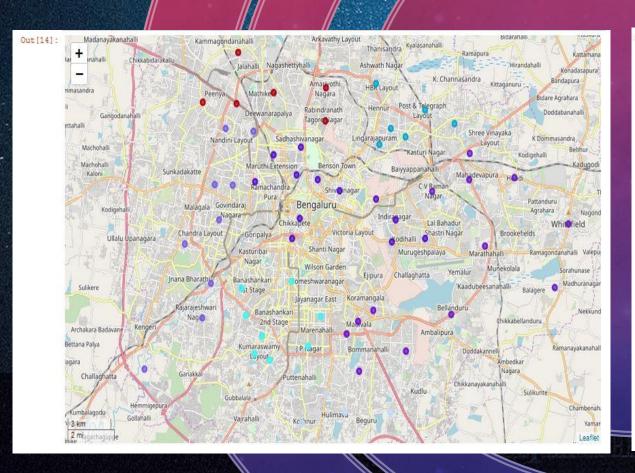
	Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Cantonment area	Central	12.972442	77. <mark>5</mark> 80643	Hotel Fishland	12.975569	77.578592	Seafood Restaurant
1	Cantonment area	Central	12.972442	77.580643	Sapna Book House	12.976355	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

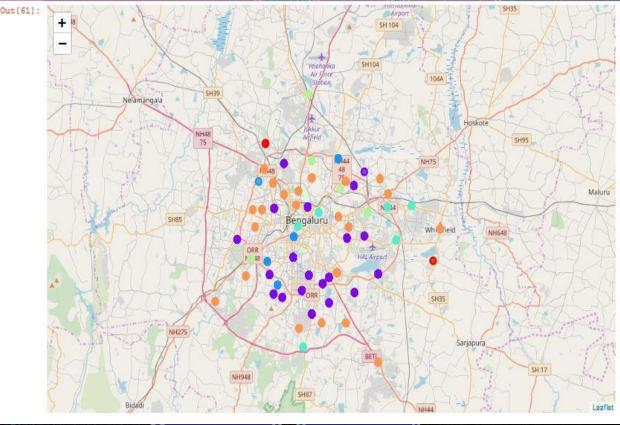
	Borough	Neighborhoods	AverageIncome	Normalized_income
0	Central	Cantonment area	18944.099792	0.293051
1	Central	Domlur	56837.022198	0.879225
2	Central	Indiranagar	41991.817435	0.649581
3	Central	Jeevanbheemanagar	6687,447632	0.103140
4	Central	Malleswaram	53270.063892	0.824047

	Borough	Neighborhoods	Population	Normalized_population
0	Central	Cantonment area	866377	0.880810
1	Central	Domlur	743186	0.755567
2	Central	Indiranagar	474289	0.482190
3	Central	Jeevanbheemanagar	527874	0.536668
4	Central	Malleswaram	893629	0.908516

Borough	Neighborhoods	Latitude	Longitude	
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

----- Arekere -----Frequency Venue Venue Category Indian Restaurant 0.16 Venue Category Sporting Goods Shop 0.16 Venue Category\_Pizza Place 0.08 Venue Category\_Department Store 0.08 Venue Category\_Mughlai Restaurant 0.04 ---- BTM Layout -----Venue Frequency Venue Category\_Indian Restaurant 0.20 Venue Category Snack Place 0.09 Venue Category Coffee Shop 0.09 Venue Category Ice Cream Shop 0.09 Venue Category Bakery 0.06 -- Banashankari -----Venue Frequency Venue Category Indian Restaurant 0.22 Venue Category\_Café 0.22 Venue Category\_Shoe Store 0.11 Venue Category\_Pizza Place 0.11 Venue Category\_Breakfast Spot 0.11

[81]:		Neighborhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	Ranking
	0	Basaveshwaranagar	Venue Category_Fast Food Restaurant	Venue Category_Ice Cream Shop	Venue Category_Indian Restaurant	[0.6426377807870477]
	1	Electronic City	Venue Category_Outlet Store	Venue Category_Bus Stop	Venue Category_Toll Plaza	[0.5423513638809381]
	2	Girinagar	Venue Category_Park	Venue Category_Ice Cream Shop	Venue Category_Dim Sum Restaurant	[0.7210681221454466]

