The Battle with Neighborhoods

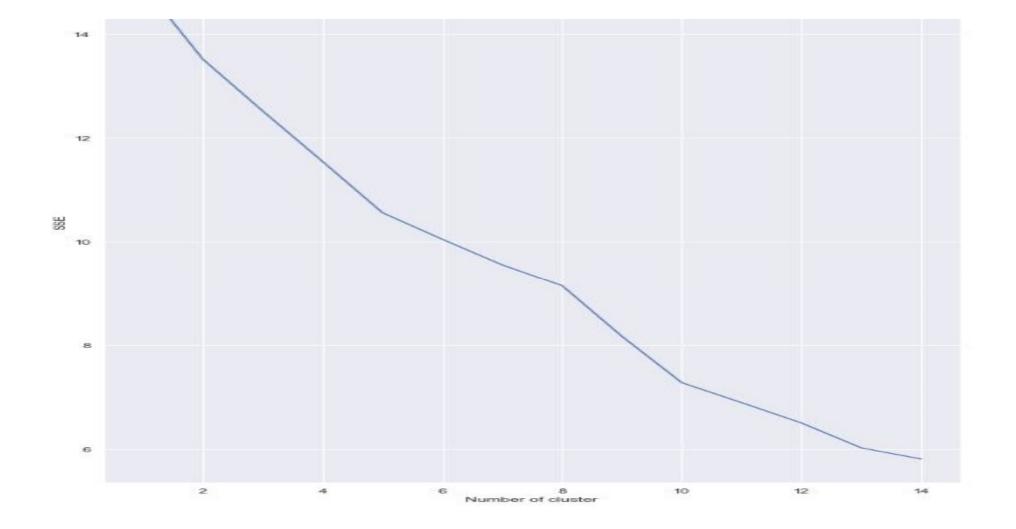
Capstone Data Science

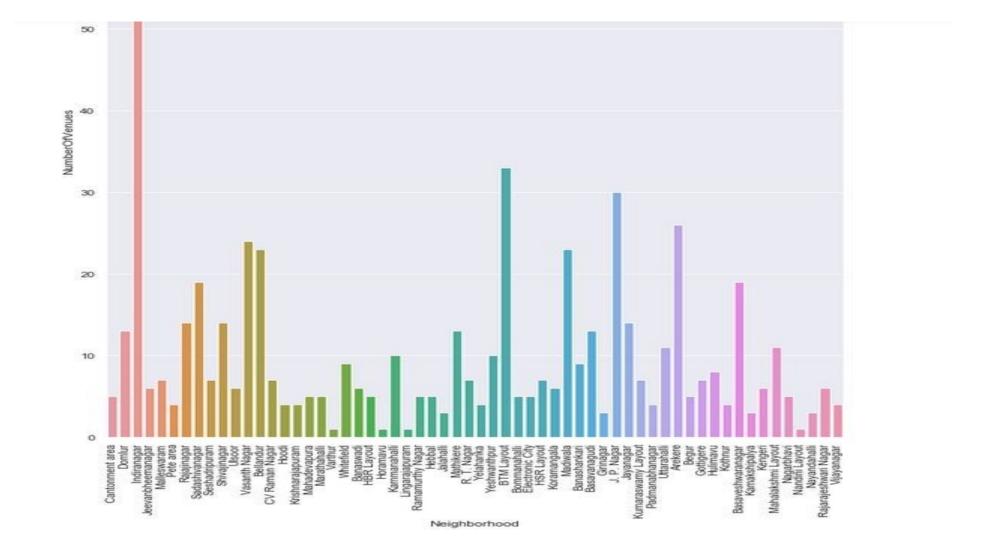
Restaurant recommending system

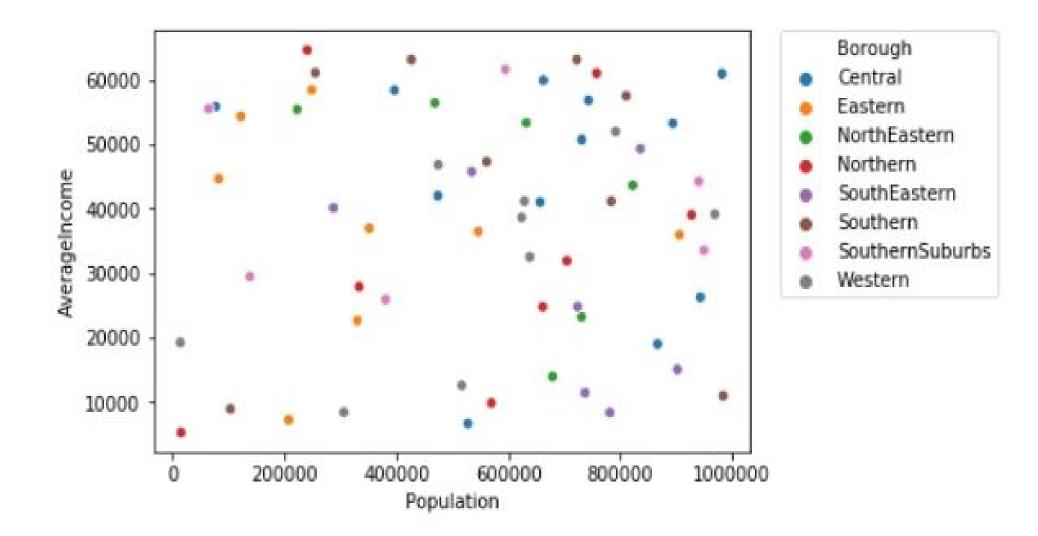
APPLIED DATA Science Capstone project

Methodology









Datasets

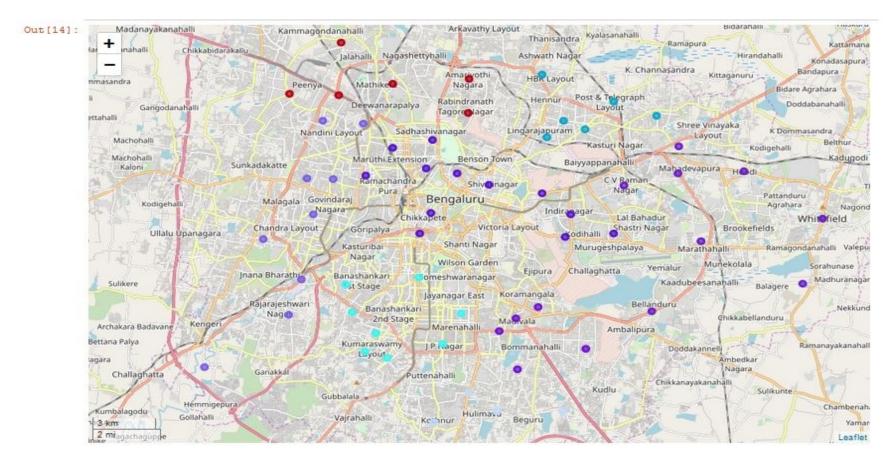
Borough	Neighborhoods	AverageIncome	Normalized_income	
Central	Cantonment area	18944.099792	0.293051	
Central	Domlur	56837.022198	0.879225	
Central	Indiranagar	41991.817435	0.649581	
Central	Jeevanbheemanagar	6667.447632	0.103140	
Central	Malleswaram	53270.063892	0.824047	
	Central Central Central	Central 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	

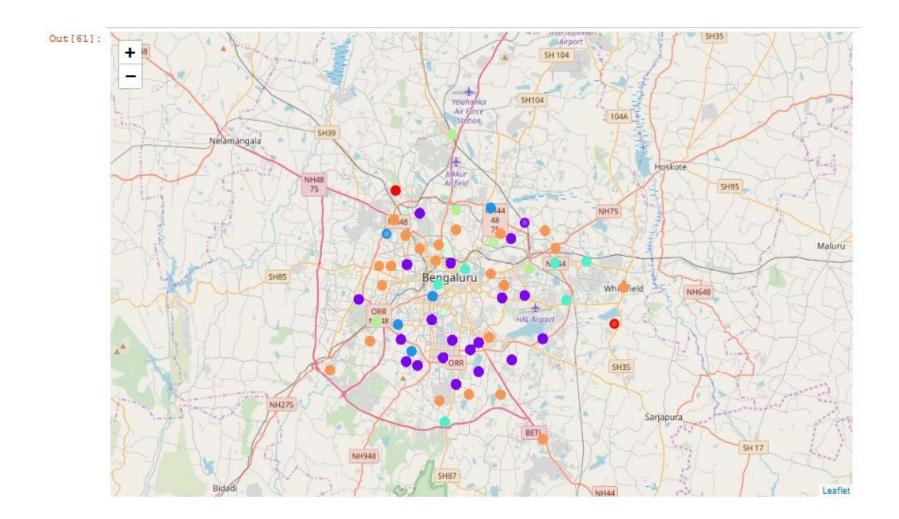
	Borough	Neighborhoods	Population	Normalized_population	
0	Central	Cantonment area	866377	0.880810	
1	Central	Domlur	743186	0.755587	
2	Central	Indiranagar	474289	0.482190	
3	Central	Jeevanbheemanagar	527874	0.536668	
4	Central	Malleswaram	893629	0.908516	

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

Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Cantonment area	Central	12.972442	77. <mark>5</mark> 80643	Hotel Fishland	12.975569	77.578592	Seafood Restaurant
Cantonment area	Central	12.972442	77.580643	Sapna Book House	12.976355	77.578481	Bookstore
Cantonment area	Central	12.972442	77.580643	Vasudev Adigas	12.973707	77.579257	Indian Restaurant
Cantonment area	Central	12.972442	77.580643	Adigas Hotel	12.973554	77.579161	Restaurant
Cantonment area	Central	12.972442	77.580643	Kamat Yatriniyas	12.975985	77.578125	Indian Restaurant
	Cantonment area Cantonment area Cantonment area	Cantonment area Central Cantonment area Central Cantonment area Central Cantonment area Central	Cantonment area Central 12.972442	Cantonment area Central 12.972442 77.580643 Cantonment area Central 12.972442 77.580643	Cantonment area Central 12.972442 77.580643 Hotel Fishland Cantonment area Central 12.972442 77.580643 Sapna Book House Cantonment area Central 12.972442 77.580643 Vasudev Adigas Cantonment area Central 12.972442 77.580643 Adigas Hotel	Cantonment area Central 12.972442 77.580643 Hotel Fishland 12.975569 Cantonment area Central 12.972442 77.580643 Sapna Book House 12.976355 Cantonment area Central 12.972442 77.580643 Vasudev Adigas 12.973707 Cantonment area Central 12.972442 77.580643 Adigas Hotel 12.973554	Cantonment area Central 12.972442 77.580643 Hotel Fishland 12.975569 77.578592 Cantonment area Central 12.972442 77.580643 Sapna Book House 12.976355 77.578461 Cantonment area Central 12.972442 77.580643 Vasudev Adigas 12.973707 77.579257 Cantonment area Central 12.972442 77.580643 Adigas Hotel 12.973554 77.579161

Mapping and clustering





Results and conclusion

	Arekere			
	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			
	NEW CO. TO STATE OF THE CO.	Venue Frequency		
0	Venue Category Indian Re	staurant 0.18		
1	Venue Category Snack Place			
2	Venue Category Ice Cream Shop 0.0			
3	Venue Category Pizza Place 0			
4	Venue Category_Vegetarian / Vegan Re	staurant 0.06		
	Banashankari			
	Ven	ue Frequency		
0	Venue Category_Indian Restaura	nt 0.22		
1	Venue Category_Ca	fé 0.22		
2	Venue Category_Men's Sto	re 0.11		
3	Venue Category_North Indian Restaura	nt 0.11		
4	Venue Category Clothing Sto			