

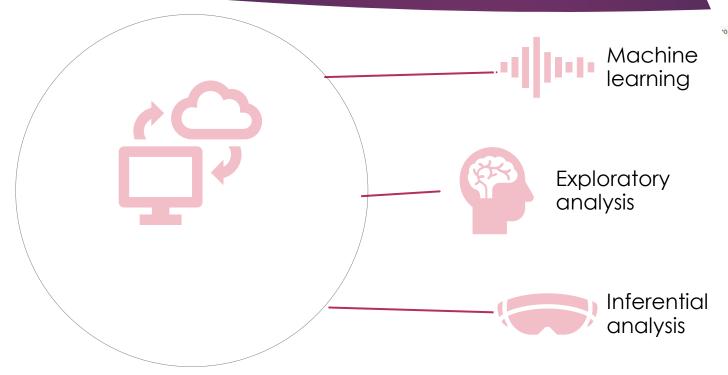
BUILDING A RECOMMENDOR SYSTEM FOR HOTELS IN THE CITY OF BENGALURU.

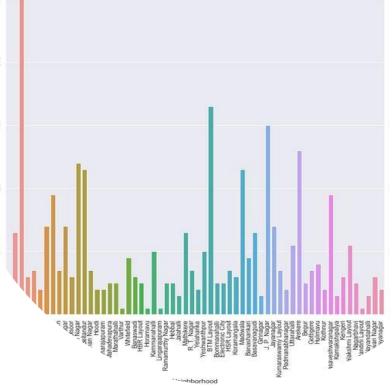
ANNAPOORNI RAVI(MS)

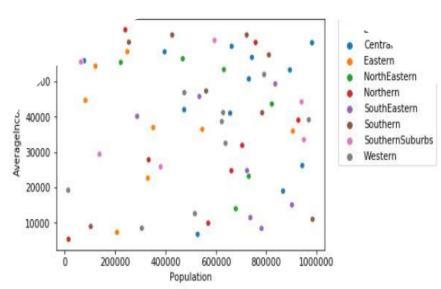
GRADUATE STUDENT

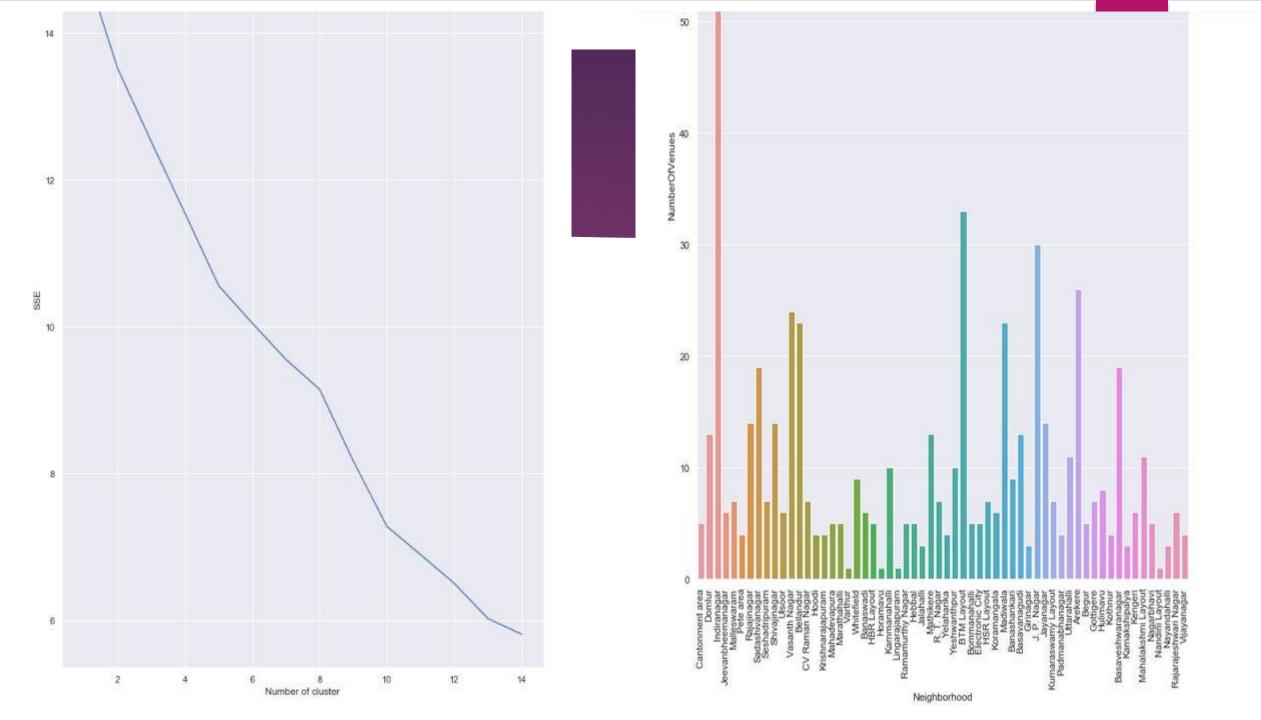
OKLAHOMA STATE UNIVERSITY, STILLWATER

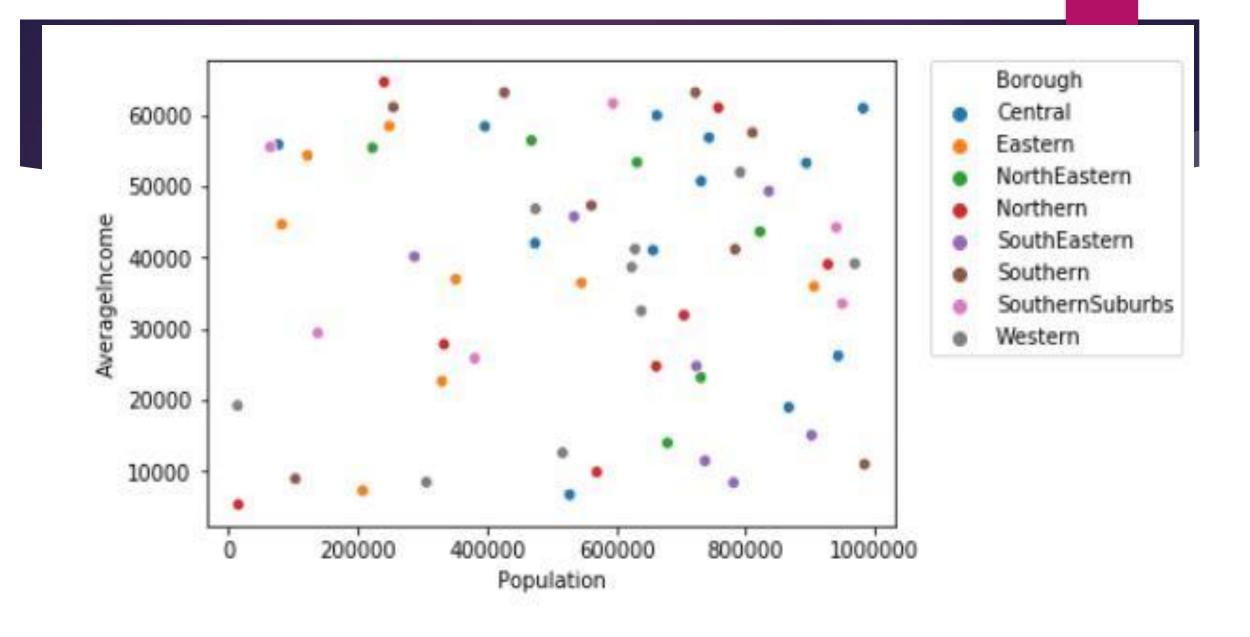
VISUALIZATIONS











DATA

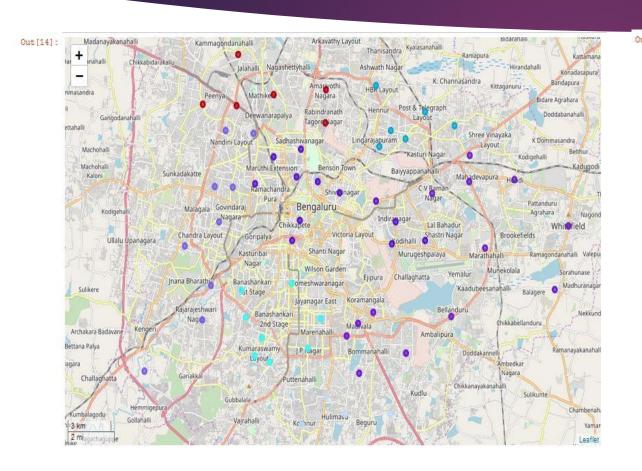
	Borough	Neighborhoods	Population	Normalized_population	
0	Central	Cantonment area	866377	0.880810	
1	Central	Domlur	743186	0.755567	
2	Central	Indiranagar	474289	0.482190	
3	Central	Jeevanbheemanagar	527874	0.536668	
4	Central	Malleswaram	893629	0.908516	

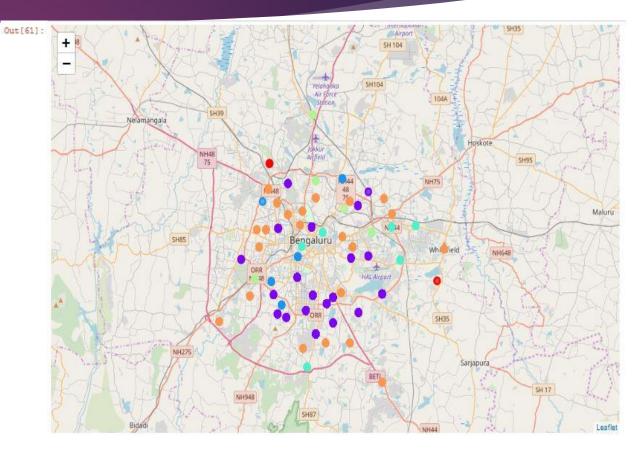
	Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Cantonment area	Central	12.972442	77.580643	Hotel Fishland	12.975569	77.578592	Seafood Restaurant
1	Cantonment area	Central	12.972442	77.580643	Sapna Book House	12.976355	77.578461	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	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

	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	6867,447632	0.103140	
4	Central	Malleswaram	53270.063892	0.824047	

FOURSQUARE API AND CUSTERING





CONCLUSION

300	Arekere		
	Venue F	requency	
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	
322	BTM Layout		
		Venue	Frequency
0	Venue Category_Indian Res	taurant	0.18
1	Venue Category_Snac	k Place	0.09
2	Venue Category_Ice Cre	am Shop	0.09
3	Venue Category_Pizz	a Place	0.06
4	Venue Category_Vegetarian / Vegan Res	taurant	0.06
22	Banashankari		
	Venu	e Frequ	ency
0	Venue Category_Indian Restauran		0.22
2 3	Venue Category_Caf	é	0.22
2	Venue Category_Men's Stor	e	0.11
3	Venue Category_North Indian Restauran	t	0.11
4	Venue Category_Clothing Stor	e	0.11

Out [211]:

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

FOR QUESTIONS FIND ME ON:







THANK YOU!