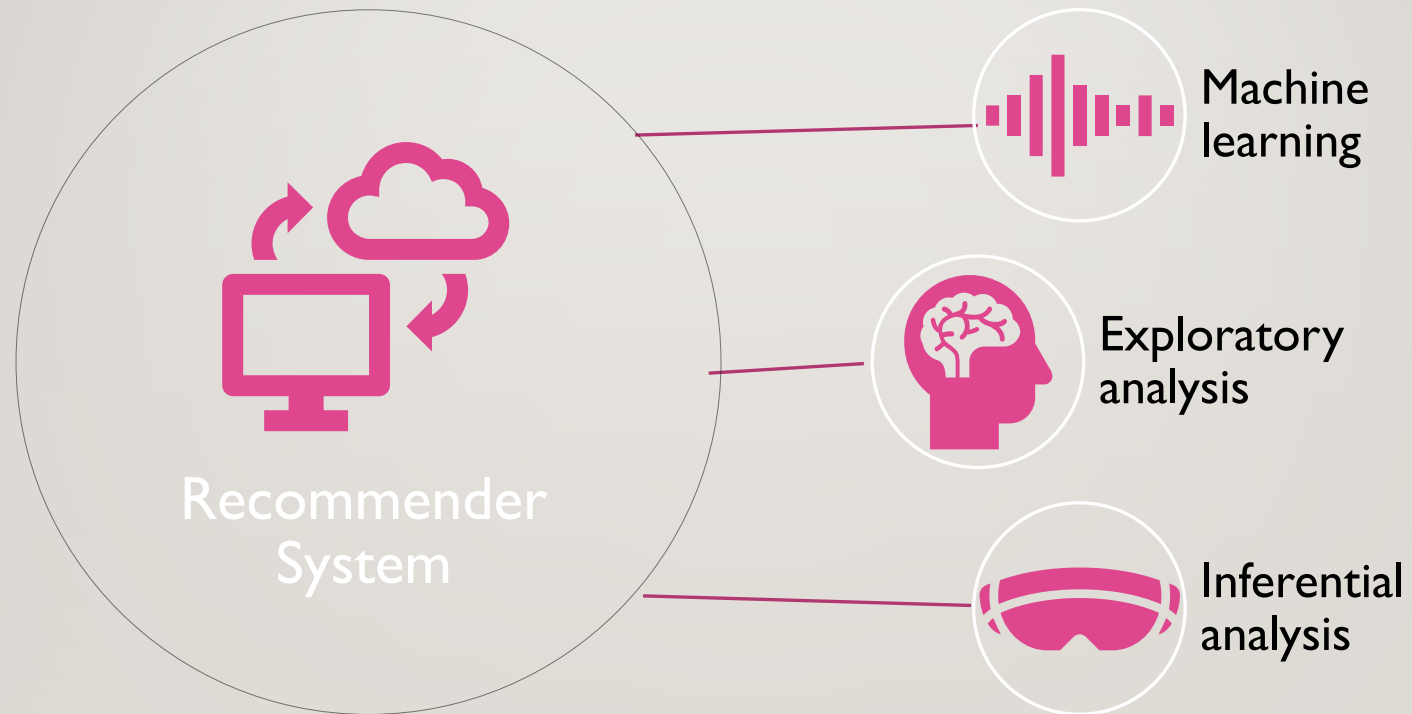


RESTAURANT RECOMMENDER SYSTEM

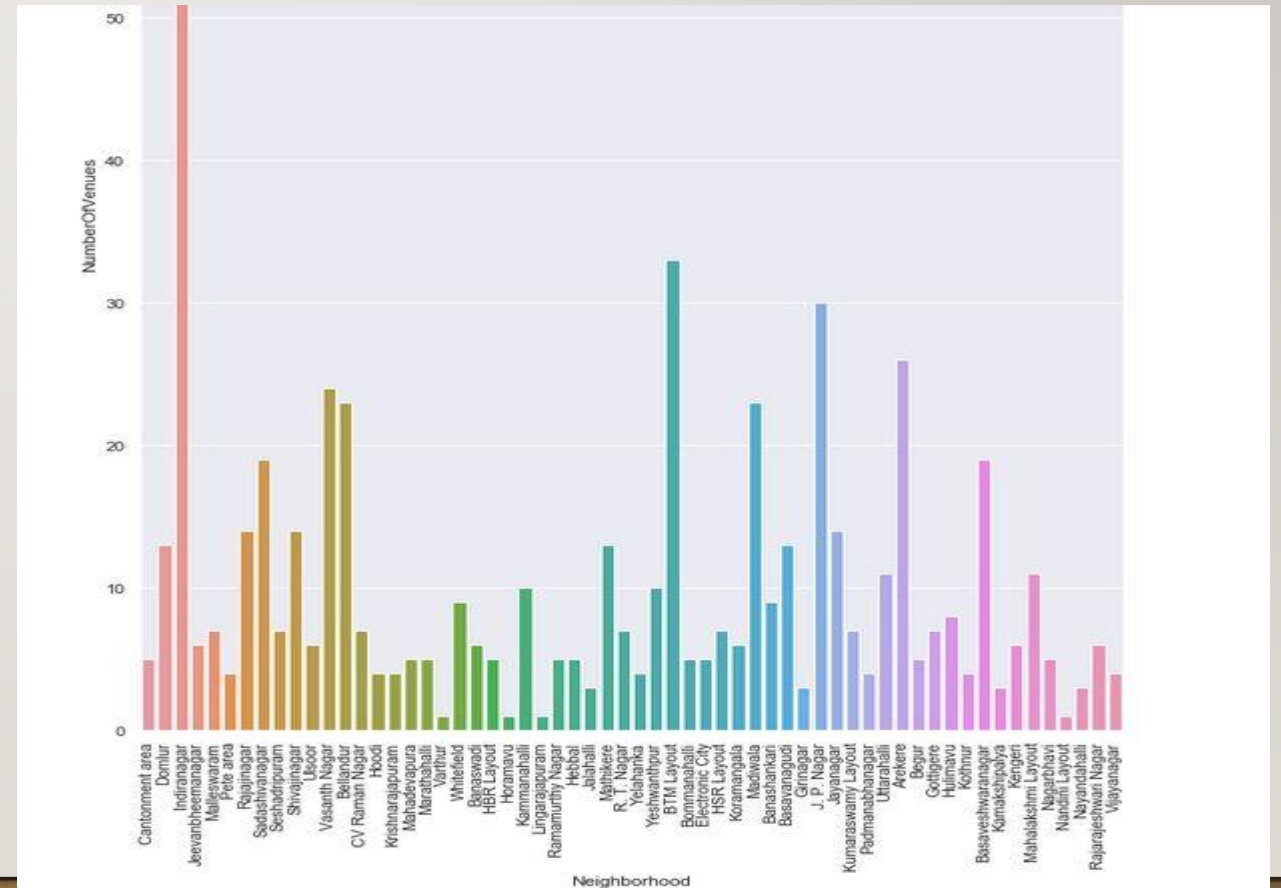
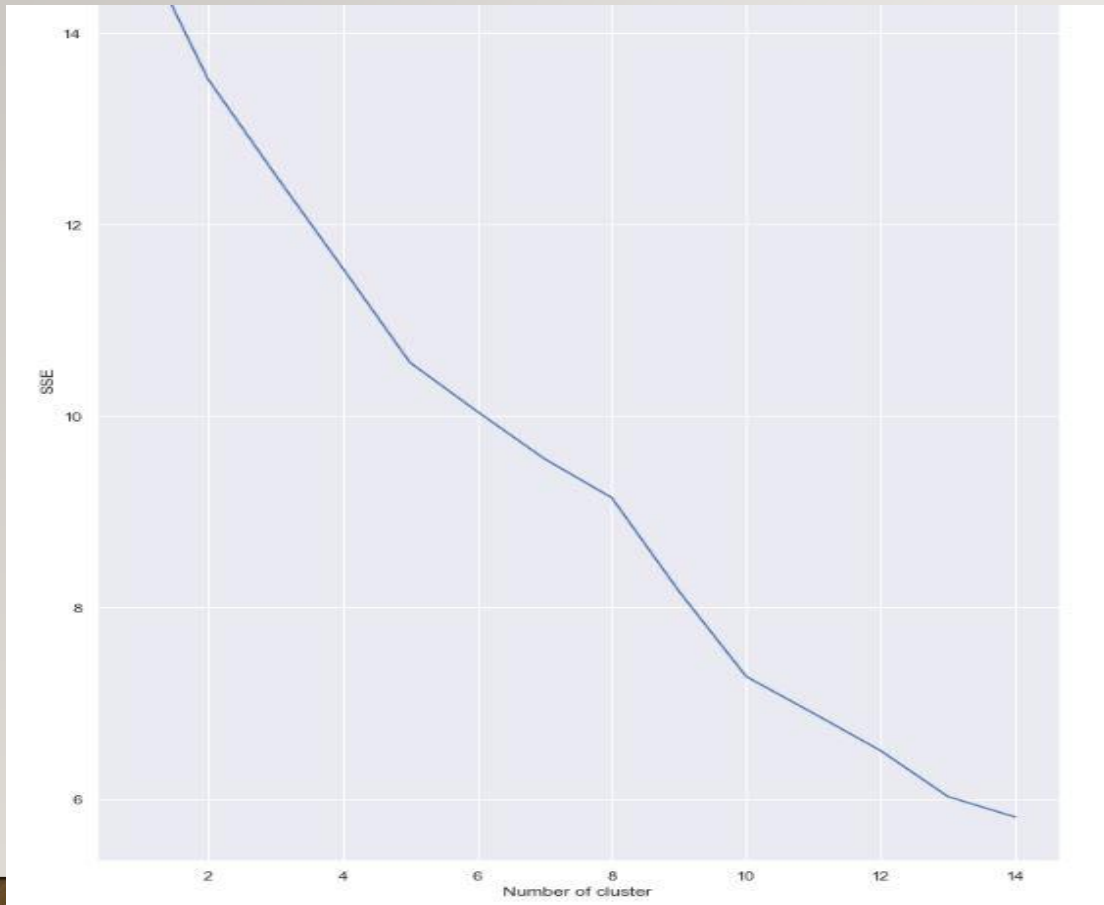
DATA SCIENCE CAPSTONE PROJECT



METHODOLOGY



GRAPHS



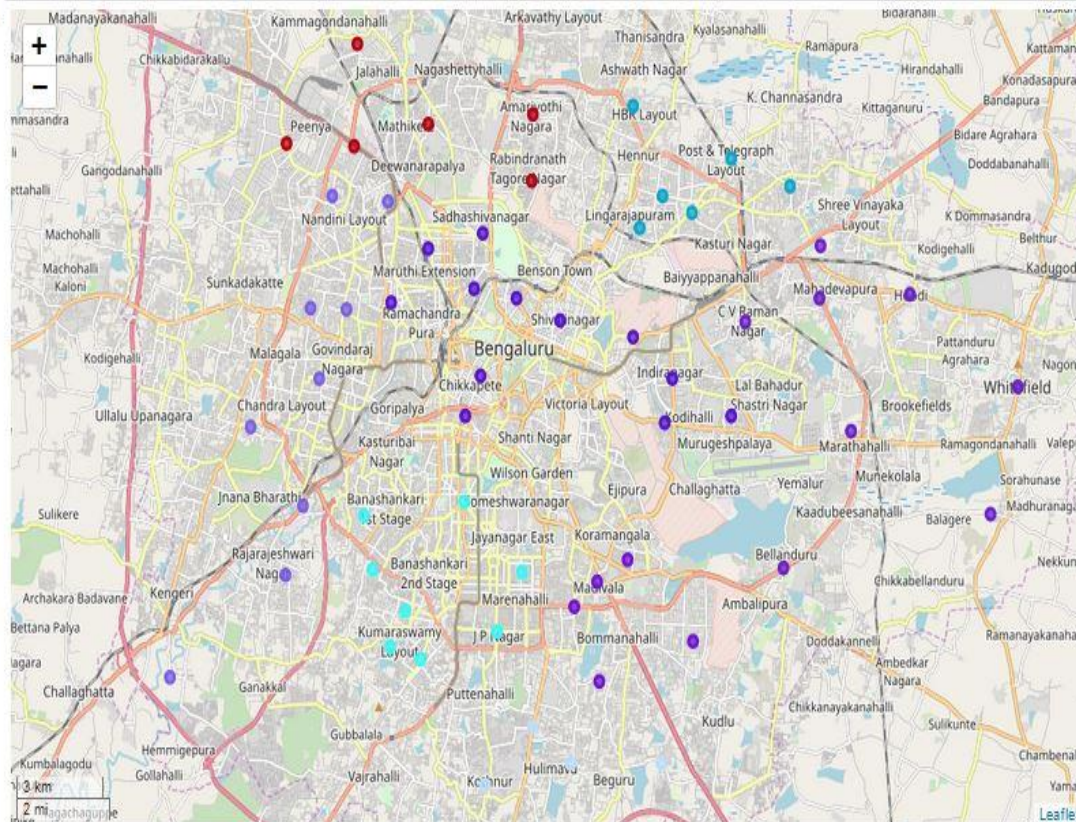
DATASETS

	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	6667.447632	0.103140
4	Central	Malleswaram	53270.063892	0.824047

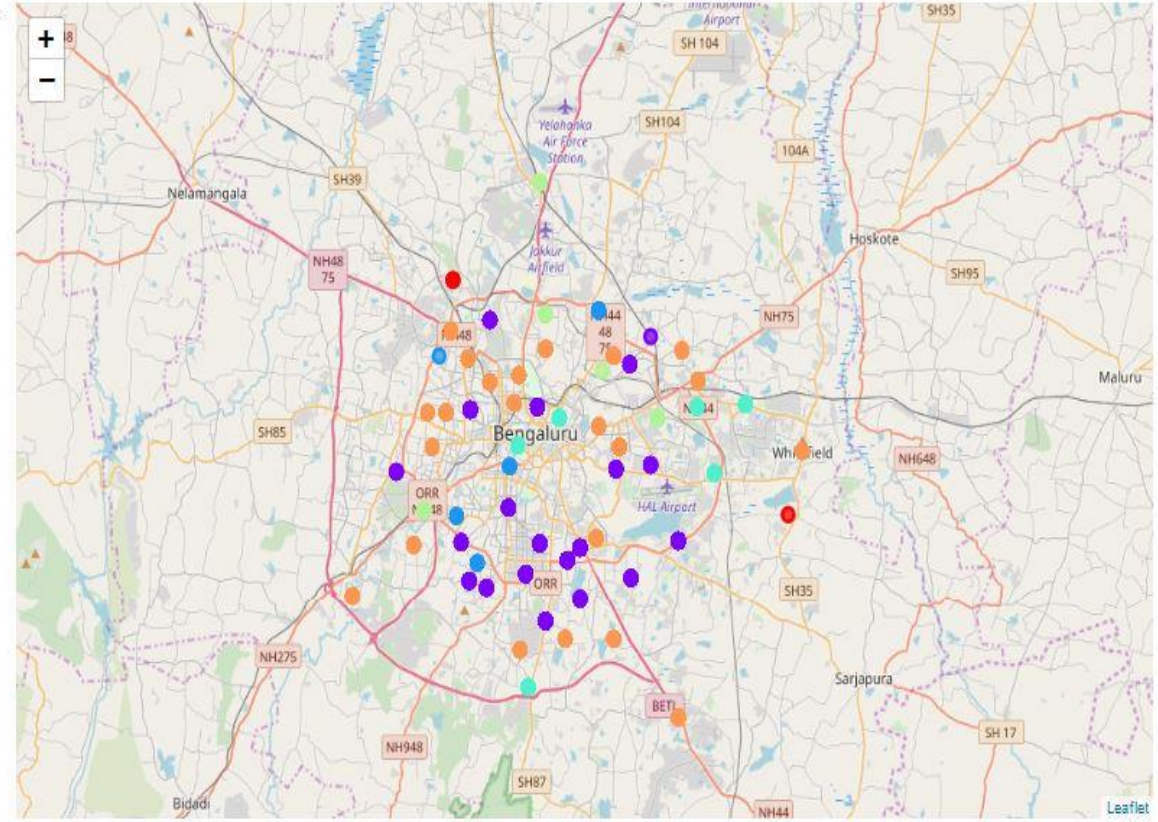
	Borough	Neighborhoods	Population	Normalized_population
0	Central	Cantonment area	866377	0.880810
1	Central	Domlur	743186	0.755567
2	Central	Indiranagar	474289	0.482190
3	Central	Jeevanbheemanagar	527874	0.536668
4	Central	Malleswaram	893629	0.908516

MAPPING AND CLUSTERING

Out [14]:



Out [61]:



RESULTS AND CONCLUSION

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----- 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 -----
Venue Frequency
0 Venue Category_Indian Restaurant 0.18
1 Venue Category_Snack Place 0.09
2 Venue Category_Ice Cream Shop 0.09
3 Venue Category_Pizza Place 0.06
4 Venue Category_Vegetarian / Vegan Restaurant 0.06

----- Banashankari -----
Venue Frequency
0 Venue Category_Indian Restaurant 0.22
1 Venue Category_Café 0.22
2 Venue Category_Men's Store 0.11
3 Venue Category_North Indian Restaurant 0.11
4 Venue Category_Clothing Store 0.11
```

Out[211]:

	Neighborhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	Ranking
0	Basaveshwaranagar	Venue Category_Ice 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]