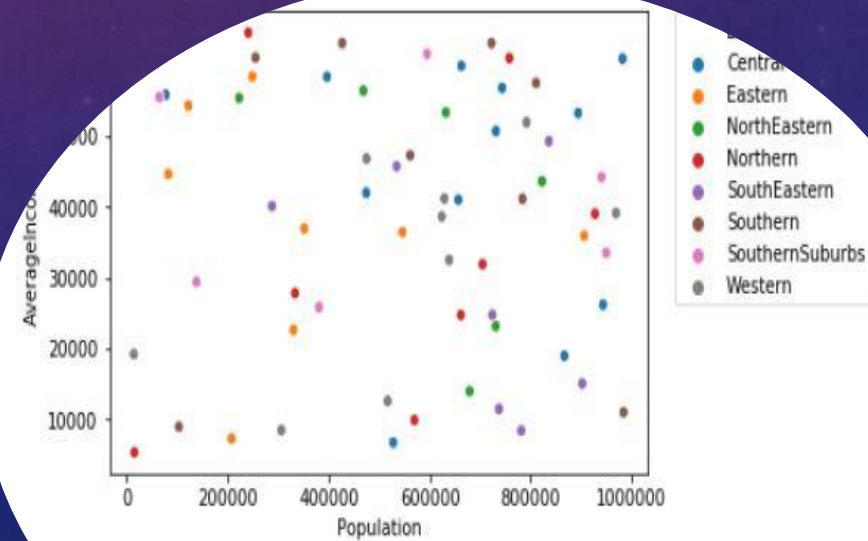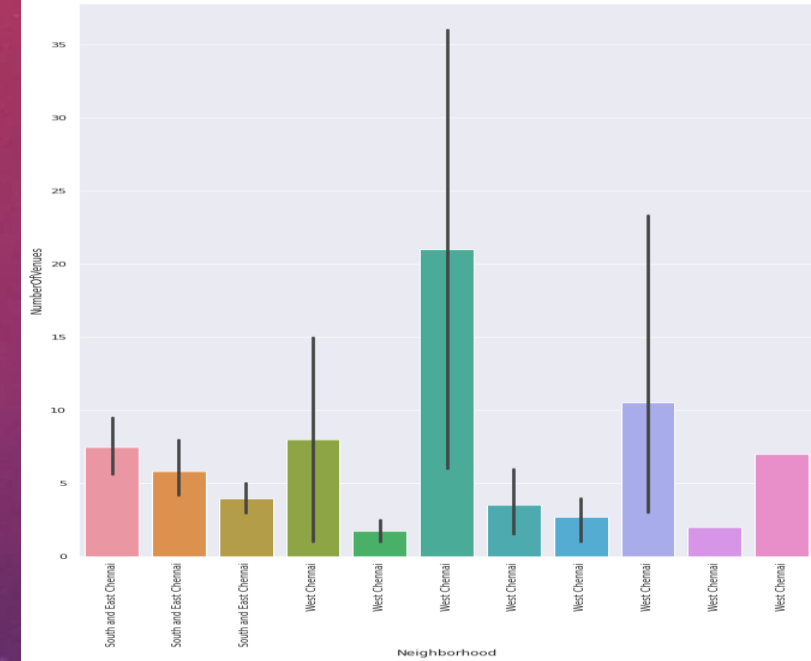# RESTAURANT RECOMMENDER SYSTEM IN INDIA THE PLACE CHENNAI
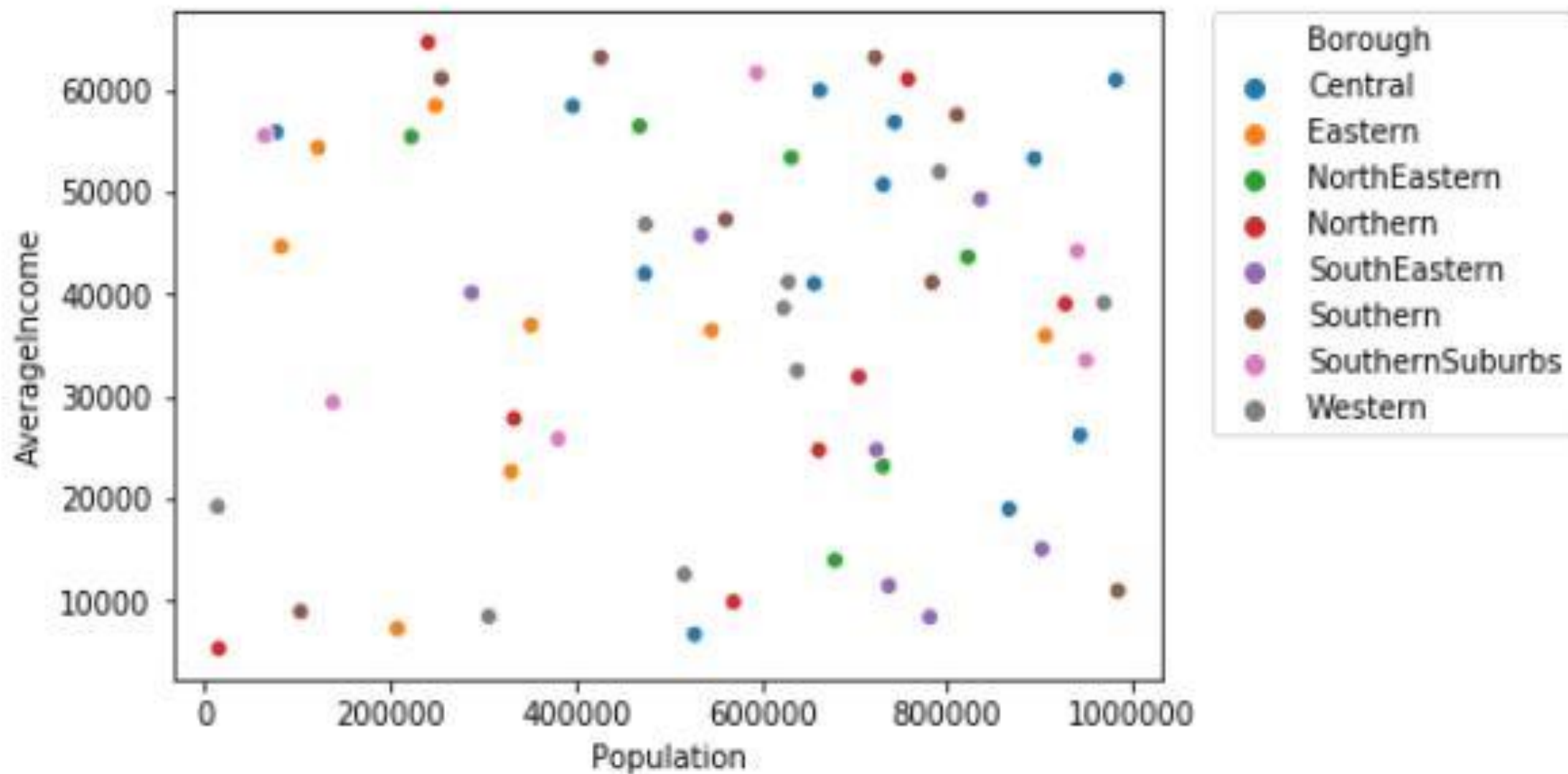
IBM CAPSTONE PROJECT.

DATASETS

	Borough	Neighborhoods	Latitude	Longitude	Population	City	AverageIncome
0	South and East Chennai	Adambakkam	12.9880	80.2047	82848	Chennai	18944.099792
1	South and East Chennai	Adyar	13.0012	80.2565	147143	Chennai	56837.022198
2	South and East Chennai	Alandur	12.9975	80.2006	47983	Chennai	41991.817435
3	West Chennai	Alapakkam	13.0490	80.1673	527874	Chennai	6667.447632
4	West Chennai	Alwarthirunagar	13.0426	80.1840	893629	Chennai	53270.063892
5	West Chennai	Ambattur	13.1143	80.1548	730999	Chennai	50712.430215

	Borough	Neighborhoods	Population
0	South and East Chennai	Adambakkam	82848
1	South and East Chennai	Adyar	147143
2	South and East Chennai	Alandur	47983
3	West Chennai	Alapakkam	527874
4	West Chennai	Alwarthirunagar	893629

	Neighborhood	Borough	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	South and East Chennai	Adambakkam	12.9880	80.2047	Venkateshwara Super Market	12.986320	80.205168	Department Store
1	South and East Chennai	Adambakkam	12.9880	80.2047	Ibaco	12.988729	80.205646	Dessert Shop
2	South and East Chennai	Adambakkam	12.9880	80.2047	Deepam Restaurant	12.985380	80.205281	Indian Restaurant
3	South and East Chennai	Adambakkam	12.9880	80.2047	ibaco Adambakkam	12.987358	80.200504	Ice Cream Shop
4	South and East Chennai	Adyar	13.0012	80.2565	Zha Cafe	12.999730	80.254806	Café

	Borough	Neighborhoods	AverageIncome
0	South and East Chennai	Adambakkam	18944.099792
1	South and East Chennai	Adyar	56837.022198
2	South and East Chennai	Alandur	41991.817435
3	West Chennai	Alapakkam	6667.447632
4	West Chennai	Alwarthirunagar	53270.063892

MAPPING AND CLUSTERING
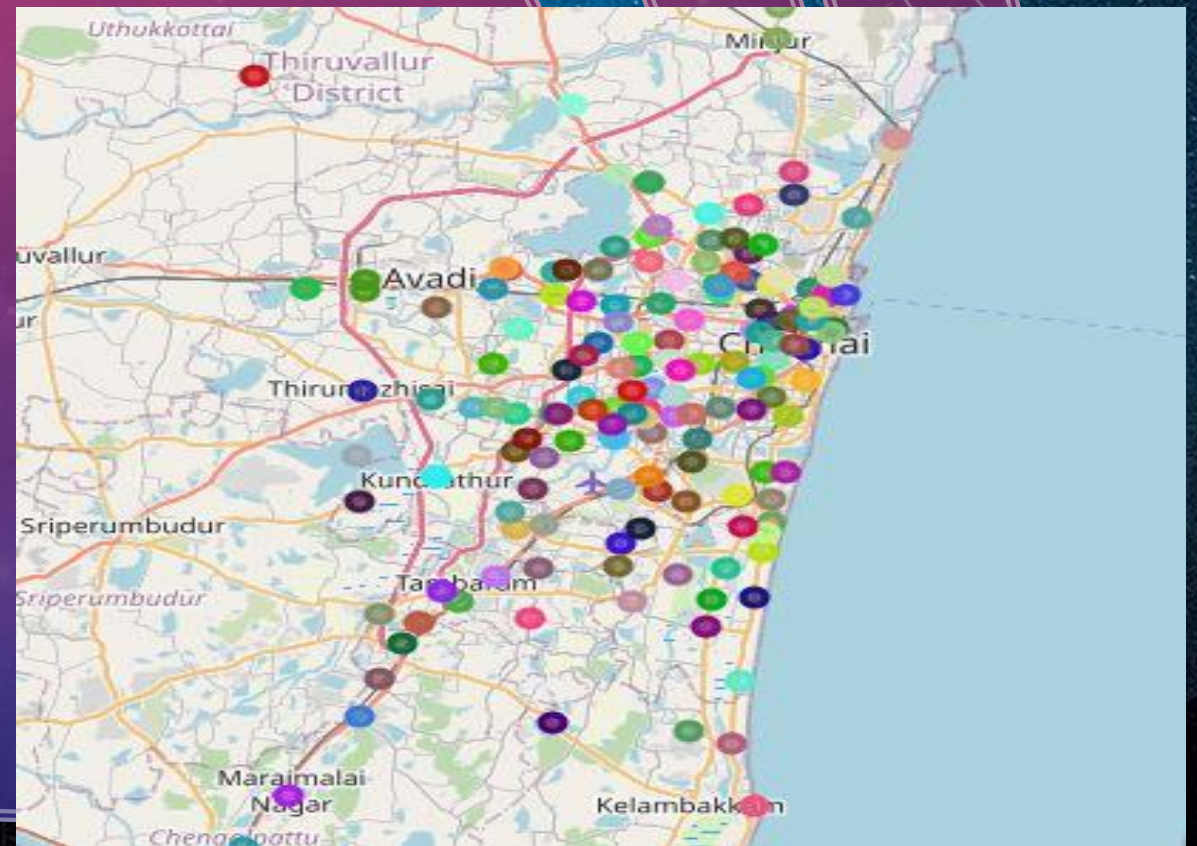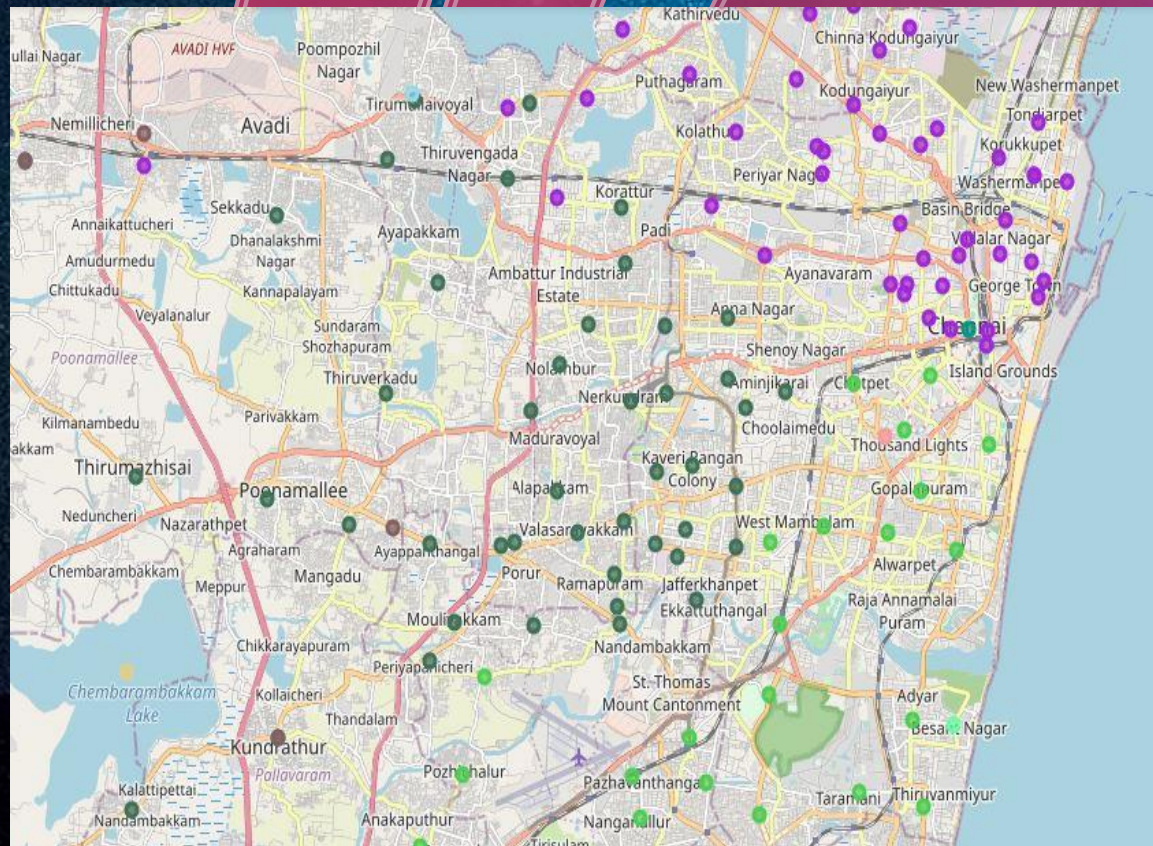
RESULTS AND CONCLUSION

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--------- Porur ---------
                                Venue  Frequency
0    Venue Category_Indian Restaurant       0.33
1     Venue Category_Asian Restaurant       0.33
2         Venue Category_Flea Market        0.17
3   Venue Category_Travel & Transport       0.17
4                Venue Category_ATM         0.00


--------- Pozhichalur ---------
                                            Venue  Frequency
0                              Venue Category_ATM        1.0
1                      Venue Category_Music Store        0.0
2   Venue Category_Molecular Gastronomy Restaurant        0.0
3                            Venue Category_Motel        0.0
4                  Venue Category_Motorcycle Shop        0.0


--------- Pudur ---------
                                            Venue  Frequency
0                       Venue Category_Pizza Place        0.5
1                            Venue Category_Park         0.5
2                             Venue Category_ATM         0.0
3                          Venue Category_Museum         0.0
4   Venue Category_Molecular Gastronomy Restaurant        0.0
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top3_df.head(3)
```

	Neighborhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	Ranking
0	Adambakkam	Venue Category_Ice Cream Shop	Venue Category_Indian Restaurant	Venue Category_Department Store	[0.2447784110101273]
1	Adyar	Venue Category_Indian Restaurant	Venue Category_Pizza Place	Venue Category_Café	[0.48269740096662883]
2	Alandur	Venue Category_Indian Restaurant	Venue Category_Train Station	Venue Category_Breakfast Spot	[0.3518004462682736]

THANK YOU