

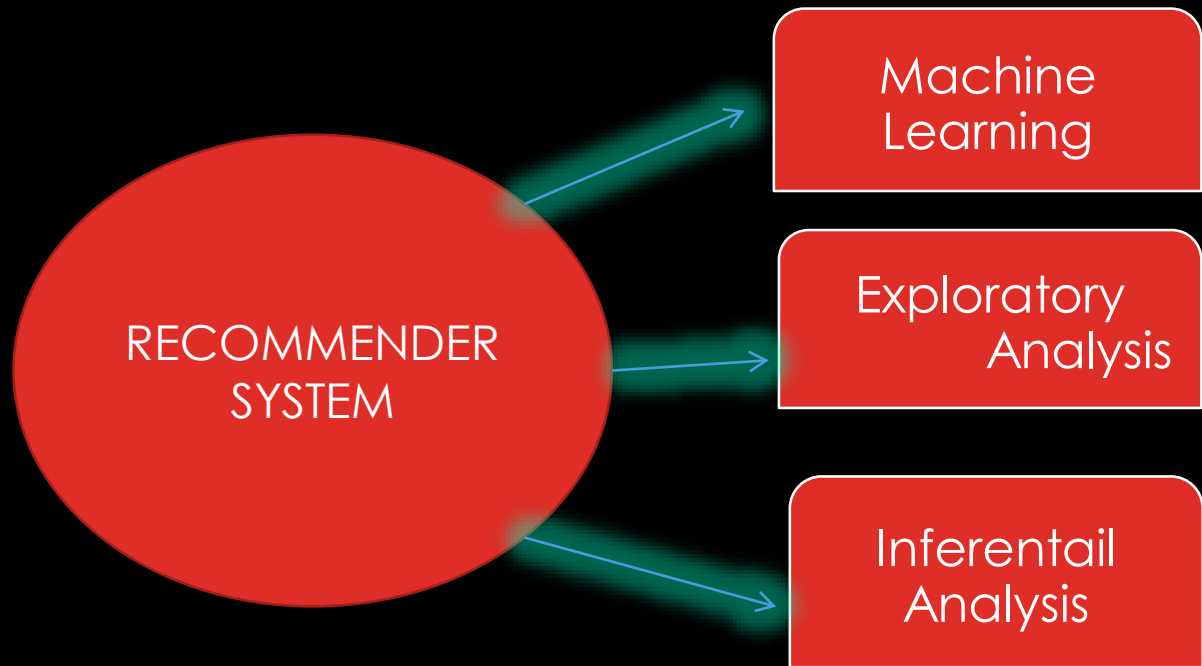


RESTAURANT SUGGESTION SYSTEM

14/11/2020

IBM CAPSTONE PROJECT

METHODOLOGY



DATASETS

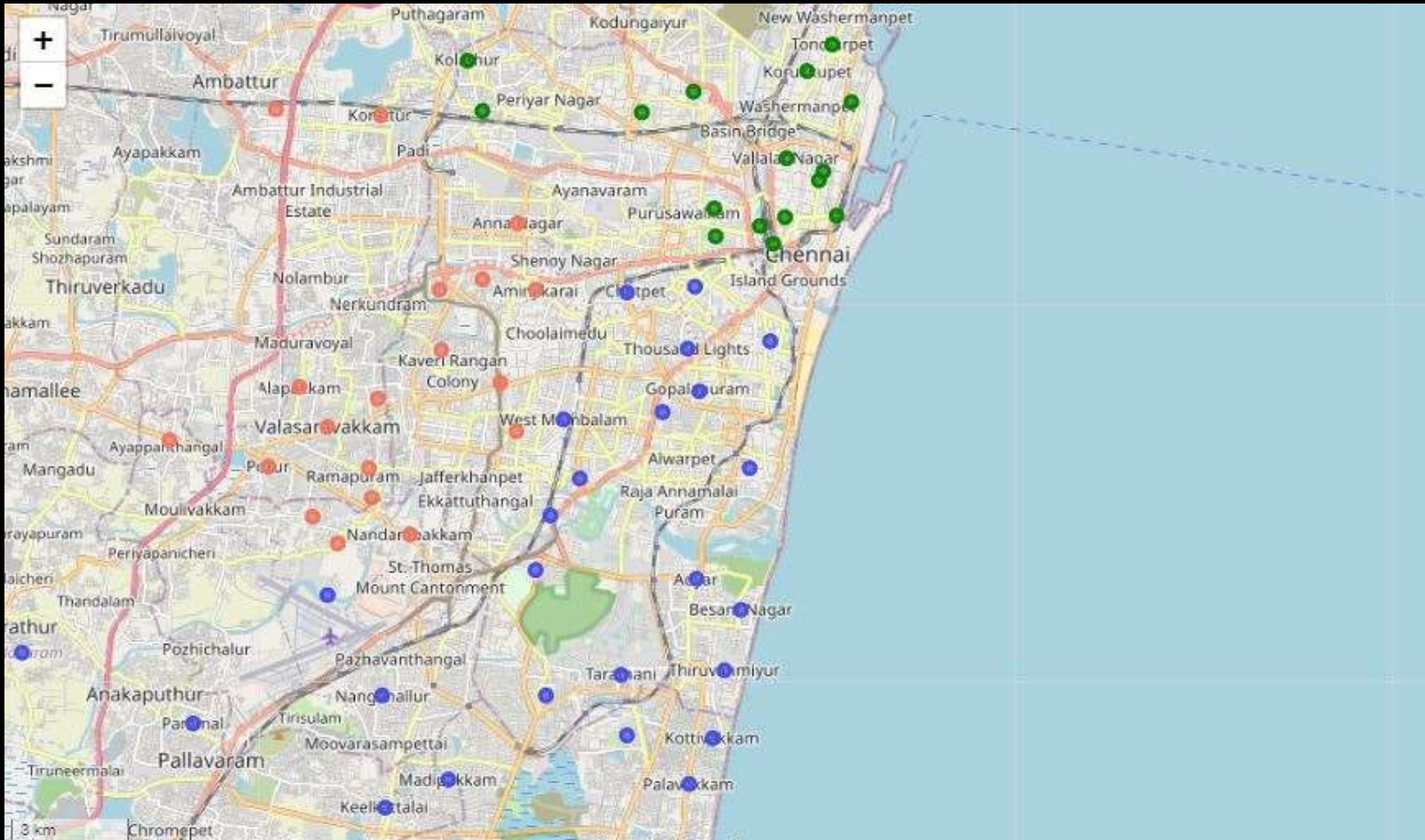
	Neighborhood	Directions	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
1385	Mylapore	South & East	13.03165	80.270099	Kalathi Cool Drink Stall	13.032062	80.270748	Juice Bar
1386	Mylapore	South & East	13.03165	80.270099	Light House	13.039610	80.279474	Lighthouse
1387	Mylapore	South & East	13.03165	80.270099	The Leela Palace	13.017246	80.273931	Hotel
1388	Mylapore	South & East	13.03165	80.270099	Winners Bakery	13.034742	80.257085	Bakery
1389	Mylapore	South & East	13.03165	80.270099	Nilgiris Supermarket	13.028484	80.256301	Department Store
...
1480	Mylapore	South & East	13.03165	80.270099	GO GO Ramen	13.032675	80.252623	Japanese Restaurant
1481	Mylapore	South & East	13.03165	80.270099	Social	13.017425	80.270299	Gastropub
1482	Mylapore	South & East	13.03165	80.270099	The English Tearoom at The Faraway Tree	13.043223	80.256396	Tea Room
1483	Mylapore	South & East	13.03165	80.270099	Jamavar	13.016994	80.273910	Indian Restaurant
1484	Mylapore	South & East	13.03165	80.270099	Barista	13.042857	80.273860	Coffee Shop

	Directions	Neighbourhoods	Population	Normalized_population
0	South & East	Adyar	7034	0.001222
1	South & East	Alandur	642237	0.111595
2	West	Alapakkam	9404	0.001634
3	West	Alwarthirunagar	8876	0.001542
4	West	Ambattur	466205	0.081007

	Directions	Neighbourhoods	Average Income	Normalized_income
0	South & East	Adyar	38236	0.382823
1	South & East	Alandur	90526	0.906357
2	West	Alapakkam	57589	0.576387
3	West	Alwarthirunagar	38509	0.385557
4	West	Ambattur	74366	0.744561

	Directions	Neighbourhoods	Longitude	Latitude
0	South & East	Adyar	80.257779	13.006450
1	South & East	Alandur	80.171919	13.002822
2	West	Alapakkam	80.165435	13.049901
3	West	Alwarthirunagar	80.183669	13.047486
4	West	Ambattur	80.159862	13.112886
...
77	South & East	Velachery	80.222851	12.980165
78	North	Vepery	80.262274	13.084295
79	North	Villivakkam	80.208138	13.112588
80	North	Vyasarpadi	80.257124	13.116973
81	South & East	West Mambalam	80.227078	13.042732

MAPPING



RESULTS & CONCLUSION

	Neighbourhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	Ranking
0	Adyar	Venue Category_Indian Restaurant	Venue Category_Café	Venue Category_Pizza Place	[0.220313523084876]
1	Alandur	Venue Category_Café	Venue Category_Hotel	Venue Category_Indian Restaurant	[0.4730221934446657]
2	Aminjikarai	Venue Category_Indian Restaurant	Venue Category_Fast Food Restaurant	Venue Category_Vegetarian / Vegan Restaurant	[0.2952657933829124]

----- Adyar -----

	Venue	Frequency
0	Venue Category_Indian Restaurant	0.17
1	Venue Category_Café	0.06
2	Venue Category_Pizza Place	0.06
3	Venue Category_Ice Cream Shop	0.06
4	Venue Category_Chinese Restaurant	0.05

----- Alandur -----

	Venue	Frequency
0	Venue Category_Café	0.2
1	Venue Category_Hotel	0.2
2	Venue Category_Juice Bar	0.1
3	Venue Category_Breakfast Spot	0.1
4	Venue Category_Indian Restaurant	0.1

----- Alapakkam -----

	Venue	Frequency
0	Venue Category_Indian Restaurant	0.32
1	Venue Category_Vegetarian / Vegan Restaurant	0.11
2	Venue Category_Fast Food Restaurant	0.11
3	Venue Category_Asian Restaurant	0.11
4	Venue Category_Pizza Place	0.05

----- Alwarthirunagar -----

	Venue	Frequency
0	Venue Category_Fast Food Restaurant	0.17
1	Venue Category_Pizza Place	0.10
2	Venue Category_Indian Restaurant	0.10
3	Venue Category_Asian Restaurant	0.07
4	Venue Category_Vegetarian / Vegan Restaurant	0.07

The image features a solid black background. At the top, there is a decorative border consisting of several overlapping, wavy bands of color. From left to right, these bands include shades of yellow, orange, red, and a bright cyan/blue. The colors blend into each other, creating a sense of motion and depth.

THANK YOU !