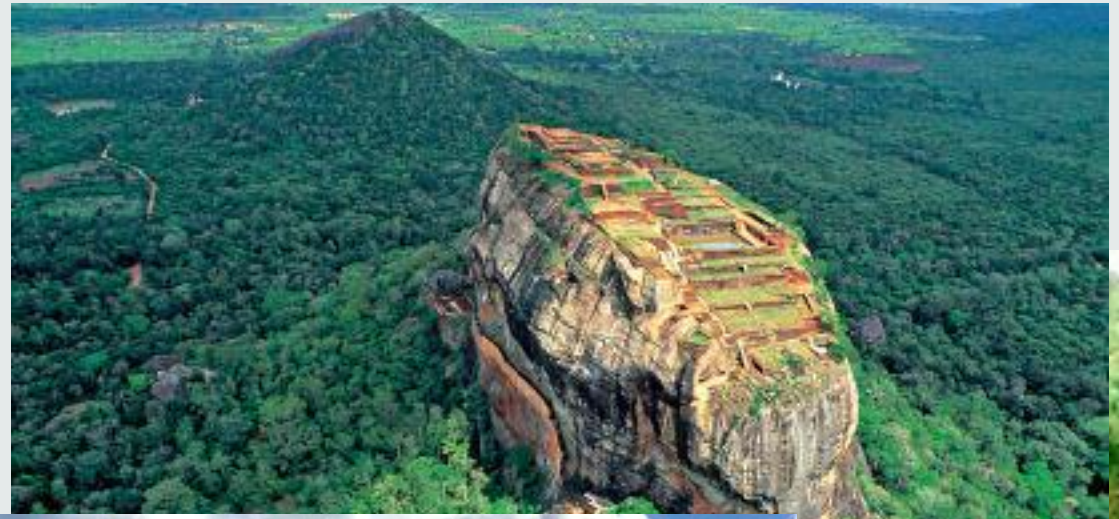
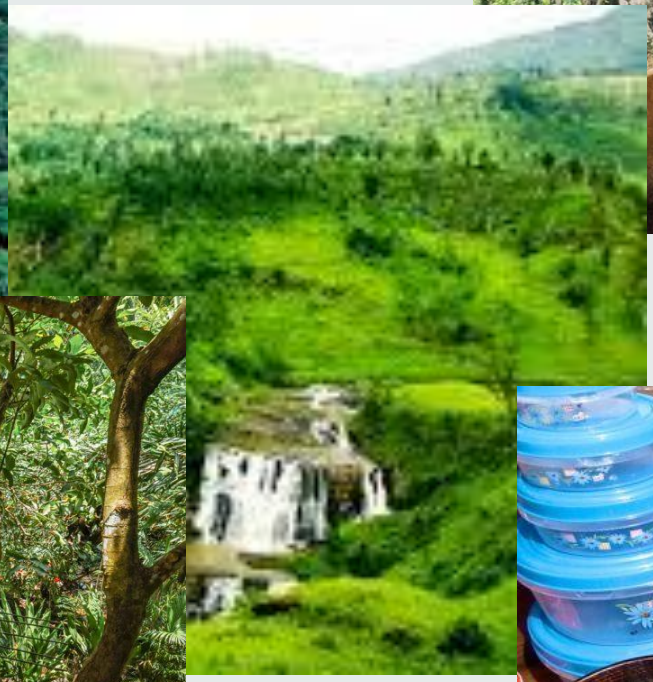
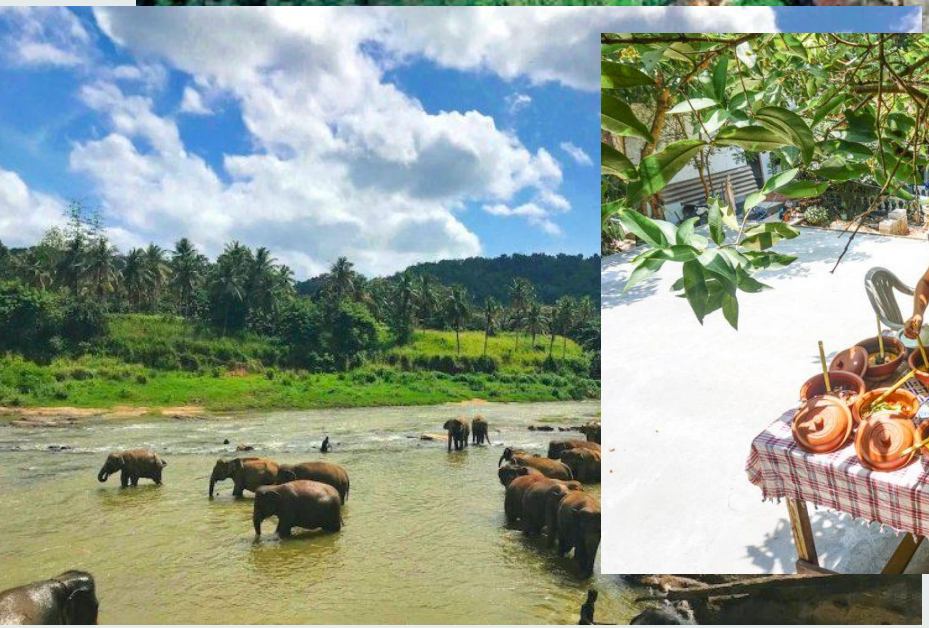
The Battle of Neighborhoods

Authentic Sri Lankan Food Search

Sri Lanka Not only famous for sceneries' but also for food

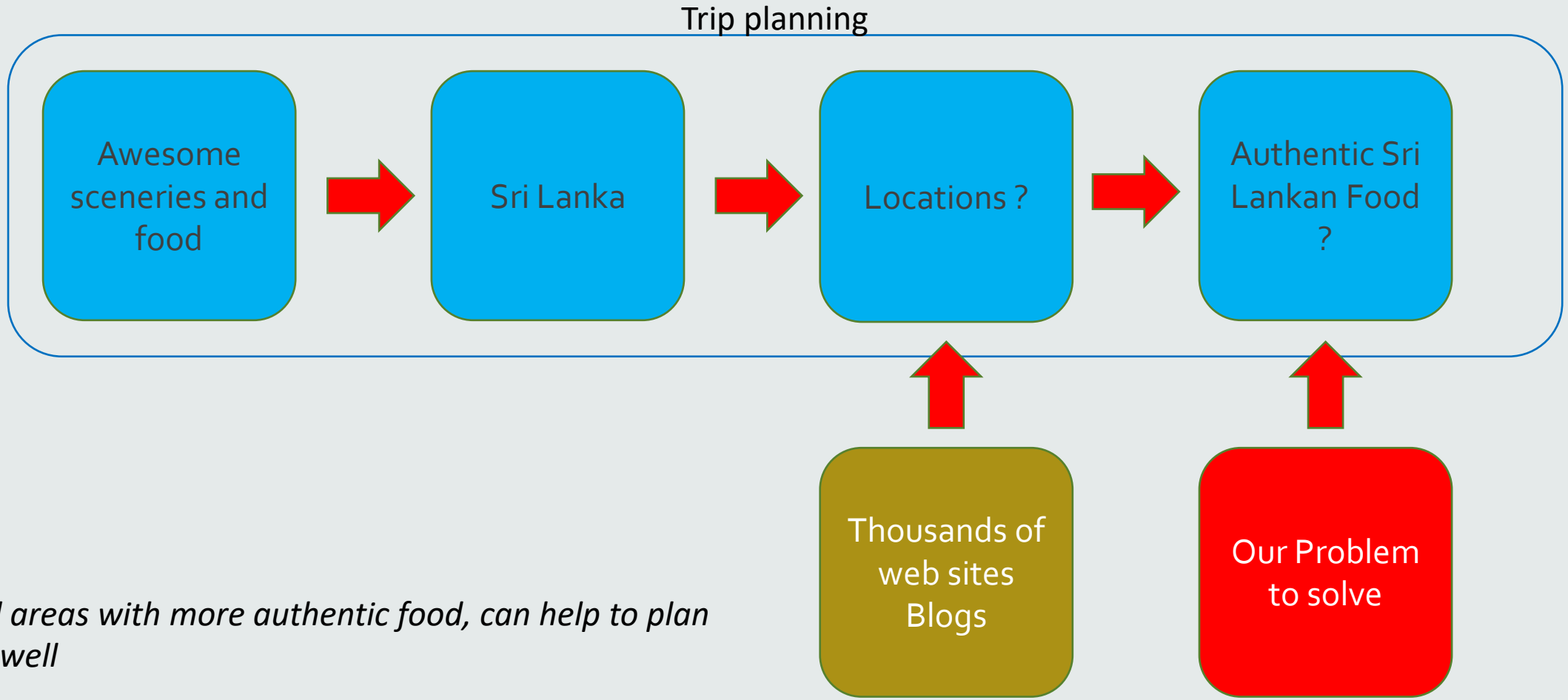






Problem and Solution

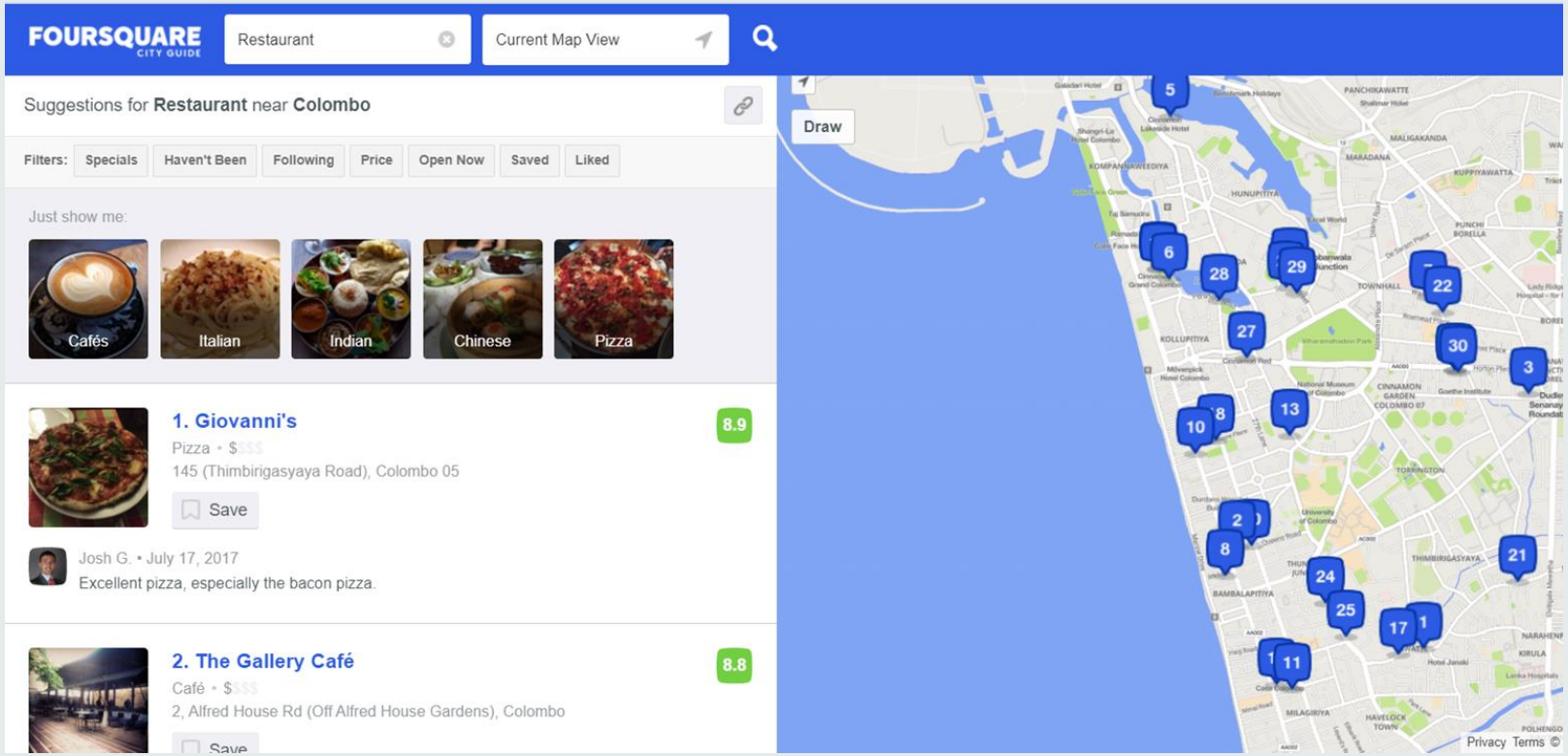
Most of the tourists coming to Sri Lanka is trying to experience the authentic Sri Lankan food.



Find areas with more authentic food, can help to plan trip well

Data

1. Wikipedia – To get Sri Lanka Districts details
2. Foursqure.com – To get restaurant details

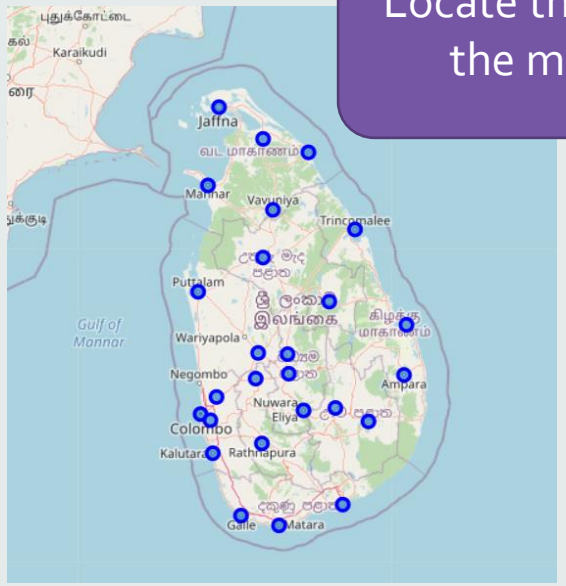


Methodology

	District	Area map	Province	Districtcapital	Landareain km2 (mi2)[24]	Inlandwaterareain km2 (mi2)[24]	Totalareain km2 (mi2)[24]	Population(2012)[25]	Populationdensityper km2(per mi2)[a]
0	Ampara	NaN	Eastern	Ampara	4,222 (1,630)	193 (75)	4,415 (1,705)	649402	154 (400)
1	Anuradhapura	NaN	North Central	Anuradhapura	6,664 (2,573)	515 (199)	7,179 (2,772)	860575	129 (330)
2	Badulla	NaN	Uva	Badulla	2,827 (1,092)	34 (13)	2,861 (1,105)	815405	288 (750)
3	Batticaloa	NaN	Eastern	Batticaloa	2,610 (1,010)	244 (94)	2,854 (1,102)	526567	202 (520)
4						23 (8.9)	699 (270)	2324349	3,438 (8,900)

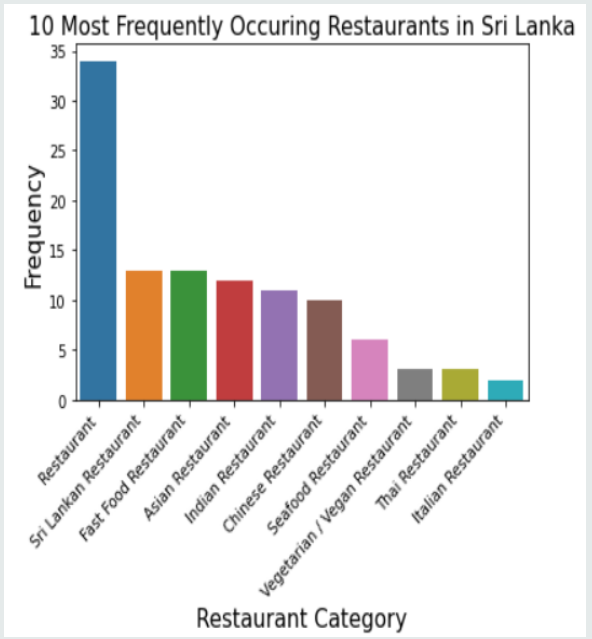
Find the area level

Locate them in the map



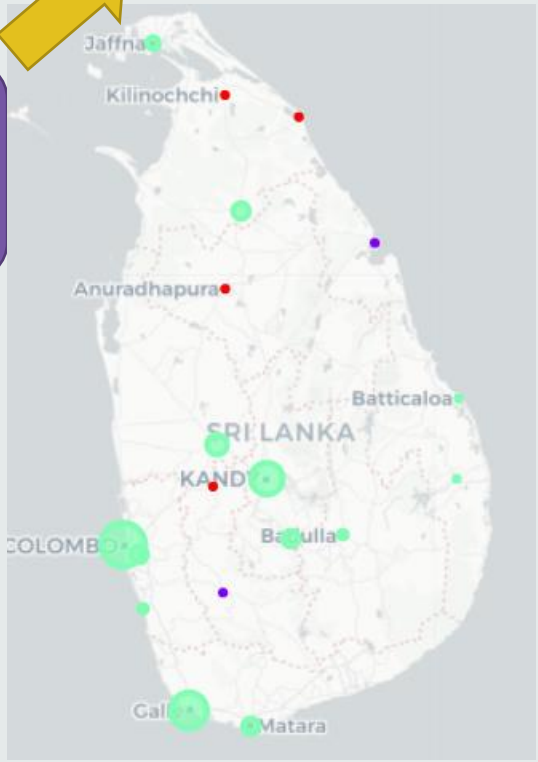
Obtain restaurants nearby

	Neighborhood	Area map	Province	Districtcapital	Landareain km2 (mi2)[24]	Inlandwaterareain km2 (mi2)[24]	Totalareain km2 (mi2)[24]	Population(2012)[25]	Populationdensityper km2(per mi2)[a]	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th M Comn Ve
0	SriLanka-Ampara	NaN	Eastern	Ampara	4,222 (1,630)	193 (75)	4,415 (1,705)	649402	154 (400)	7.291123	81.672395	2.0	Asian Restaurant	Vegetarian / Vegan Restaurant	Halal Restaurant	Chinese Restaurant	Dump Restau
1	SriLanka-Anuradhapura	NaN	North Central	Anuradhapura	6,664 (2,573)	515 (199)	7,179 (2,772)	860575	129 (330)	8.334985	80.410610	0.0	Sri Lankan Restaurant	Asian Restaurant	Vegetarian / Vegan Restaurant	Halal Restaurant	Chin Restau
2	SriLanka-Badulla	NaN	Uva	Badulla	2,827 (1,092)	34 (13)	2,861 (1,105)	815405	288 (750)	6.989820	81.056943	2.0	Restaurant	Asian Restaurant	Fast Food Restaurant	Vegetarian / Vegan Restaurant	H Restau
3	SriLanka-Batticaloa	NaN	Eastern	Batticaloa	2,610 (1,010)	244 (94)	2,854 (1,102)	526567	202 (520)	7.735603	81.694196	2.0	Indian Restaurant	Restaurant	Halal Restaurant	Asian Restaurant	Chin Restau
4	SriLanka-Colombo	NaN	Western	Colombo	676 (261)	23 (8.9)	699 (270)	2324349	3,438 (8,900)	6.934997	79.853846	2.0	Seafood Restaurant	Indian Restaurant	Restaurant	Chinese Restaurant	Fast F Restau

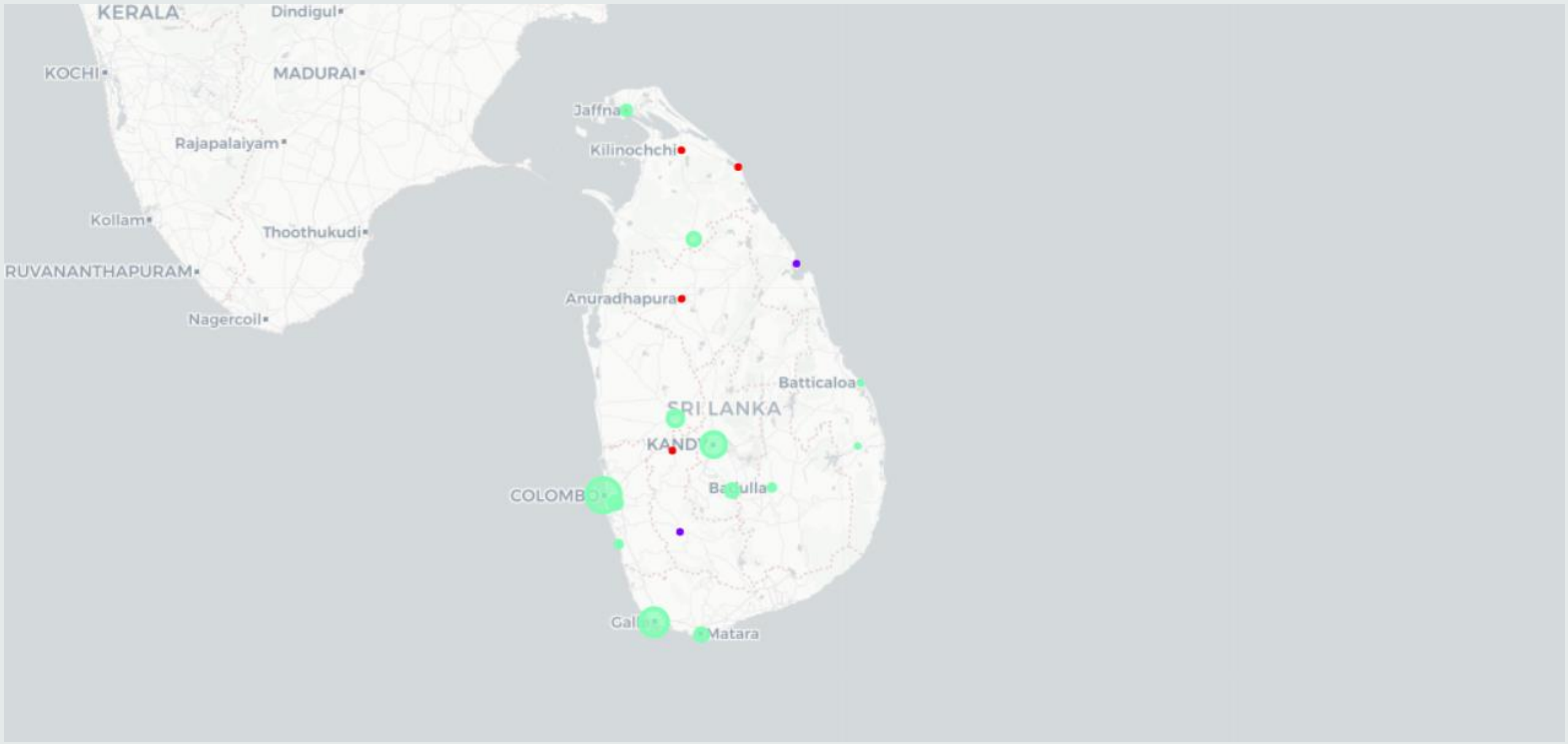


Find the type and classify

Obtaining the anticipated areas



Result



After Clustering we got theses results as shown in map

1. Green Color – Most of the common restaurants => High Probability of authentic Sri Lankan Restaurants
2. Red color – Guaranteed the exitance of authentic Sri Lankan Restaurants
3. Purple color – Most common type is Fast-food restaurants => Less Probability of authentic Sri Lankan Restaurants

Conclusion

- Most of the common restaurants can be found compare to the types of Restaurants so may have effect on the accuracy.
- Since Data availability for Sri Lanka is small, the accuracy of the system can differ with the actual scenario.
- To get more accurate recommendation system, need to collect more data in each area.

Thank You !