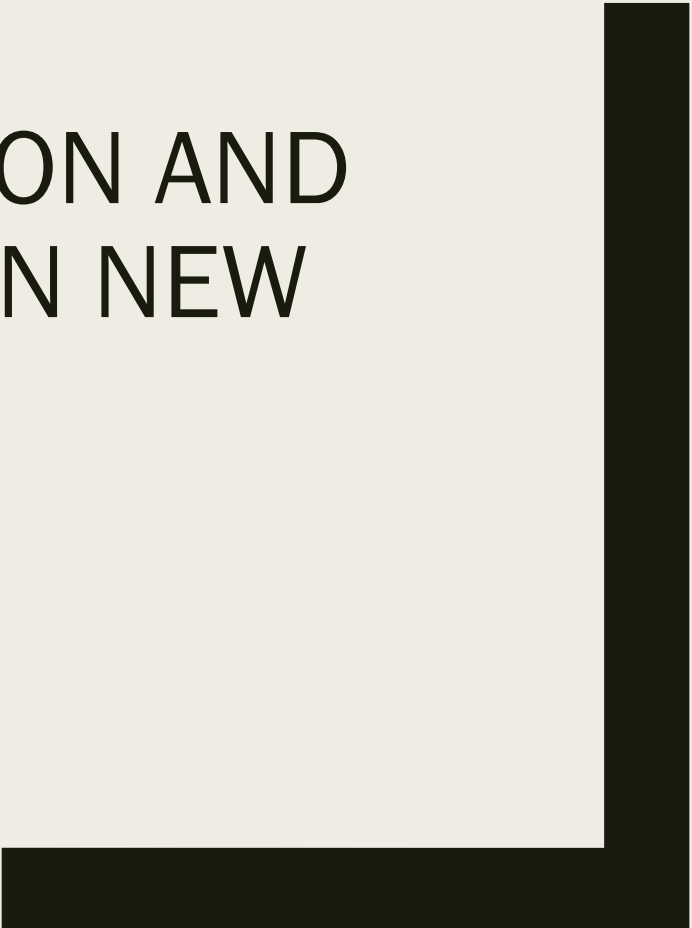




# LEFTOVER FOOD COLLECTION AND COMPOSTING BUSINESS IN NEW DELHI

Coursera Capstone Project  
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## Problem Statement

- Food waste a critical issue in a populous, developing country like India
- The state of Delhi or the National Capital Region (NCR) has a population of over 20 millions
- Suitable location needed to set up a business to tackle food waste

## Background

- Leftover food collected from restaurants by the business
- Quality check and storage for distribution among the needy
- Spoilt food is to be composted and supplied to local nurseries (flower and horticulture)

## Data

- Foursquare API: data on restaurants and nurseries in New Delhi
- Google API: data on local foodbanks, etc.
- Restaurants with existing sustainability tags/initiatives to be preferred

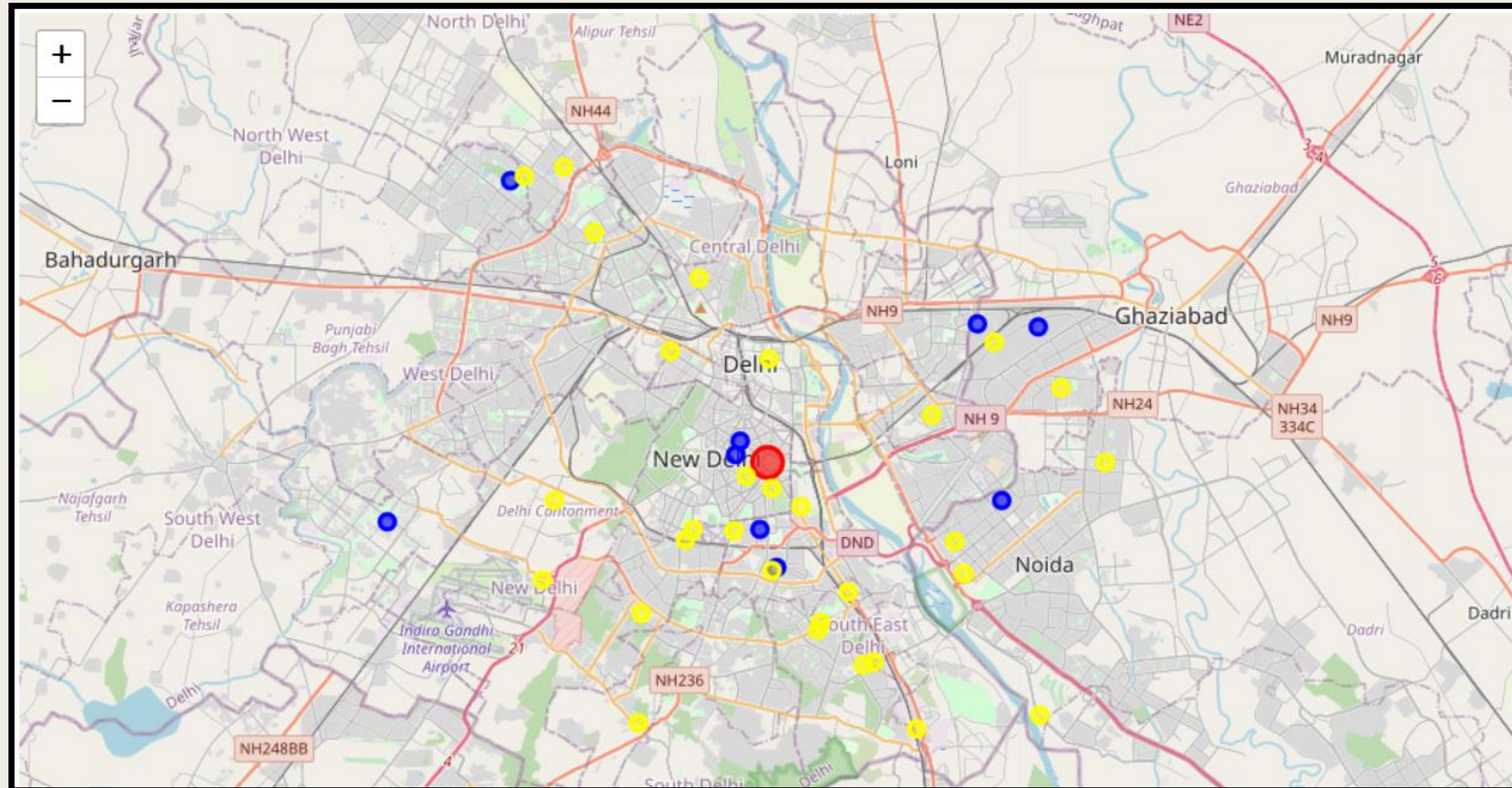
## Methodology

- Area with highest density of restaurants and nurseries is suitable
- Below is the dataframe of nurseries, as queried from Foursquare

	id	name	categories	referralId	hasPerk	location.lat	location.lng	location.labeledLatLngs	loca
0	5a06dc1b029a5528a0d3e22f	Gda Plant Nursery	[[{'id': '4bf58dd8d48988d15b941735', 'name': 'F...	v- 1592380840	False	28.642410	77.362320	[[{'label': 'display', 'lat': 28.64241, 'lng': ...	
1	5cf14f723ba767002c0b5696	Planton	[[{'id': '5453de49498eade8af355881', 'name': 'B...	v- 1592380840	False	28.607205	77.220454	[[{'label': 'display', 'lat': 28.60720533477192...	
2	5246863411d2fda7a991dee1	Sundar Nursery	[[{'id': '4bf58dd8d48988d15a941735', 'name': 'G...	v- 1592380840	False	28.595127	77.244694	[[{'label': 'display', 'lat': 28.59512709149501...	
3	4dfcd099185009bba4dea64e	Masjid Nursery	[[{'id': '4bf58dd8d48988d131941735', 'name': 'S...	v- 1592380840	False	28.602816	77.231784	[[{'label': 'display', 'lat': 28.60281594738906...	
4	5354c06f498e71ff79af8e40	Rajdhani Nursery	[[{'id': '4bf58dd8d48988d11b951735', 'name': 'F...	v- 1592380840	False	28.585601	77.214486	[[{'label': 'display', 'lat': 28.585601, 'lng':...	

## Results

- Below is the superimposed map (restaurants + nurseries)



## Discussion and Conclusion

- The Central Delhi region was found to be a suitable location
- Foursquare API is not suitable for studies using geographical locations in India – the data points are very few
- For professional projects, Google API or other services should be explored