COURSERA FINAL PROJECT MACHINE LEARNING CAPSTONE

BACKGROUND

- There are currently many beaches across the United States that are filled with unwanted human waste that causes real biological damage to the ecosystem.
 In this project, our aim is to create a valuable tool to help beachgoers understand where local trash repositories are and aim to clean up their personal mess.
- Our stakeholders are beachgoers with an interest in conservation and this
 project aims to help these beachgoers find the proper means to dispose of
 their waste in these public venues.

DATA

• We will leverage the Foursquare API to find local trash depots, restrooms, and private waste disposal venues nearby public beaches.

```
address = '70 Newport Pier, Newport Beach, CA'

geolocator = Nominatim()

location = geolocator.geocode(address)

latitude = location.latitude

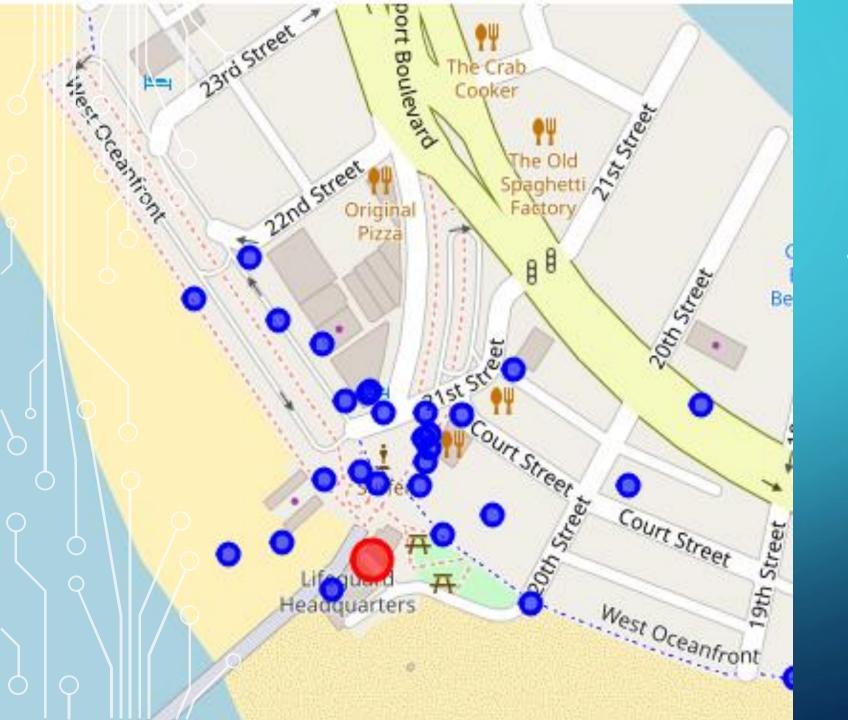
longitude = location.longitude
```

```
search_query = ''
radius = 500
```

RESULTS

Using the Foursquare API and Pandas
 Dataframes we are able to create a list
 of nearby venues that should have trash
 access.

dataframe_filtered.name		
0	Newport Beach Boardwalk	
1	21st Street Beach	
2	McFadden Square	
3	West Caught Fish Co.	
4	Pipeline	
5	Lifeguard Headquarters Newport Beach	
6	Dory Fishing Fleet Market	
7	Newport Beach Pier	
8	Boardwalk Sports	
9	Diamond Parking Lot	
10	Newport Coffee Company	
11	Balboa Peninsula	
12	Charlie's Chili	
13	Newport Pier Marketplace	
14	20th Street Beach	
15	Lifeguard Tower 20	
16	19th Street Beach	
17	Hoag Irvine	
18	2004 West Oceanfront	
19	My office	
20	Jane's Corndogs	
21	PJ's Surfrider	
22	The Beach Shop	
23	Newport Beach, CA	
24	Seaside Donuts Bakery	
25	Doryman's Inn Room 2	
26	Pier Shop	
27	21 Oceanfront	
28	Henry's Grocery	
29	The Shell Guy Of Newport	



RESULTS

 We find that there are venues throughout the beach and nearby for the public to throw away their trash.