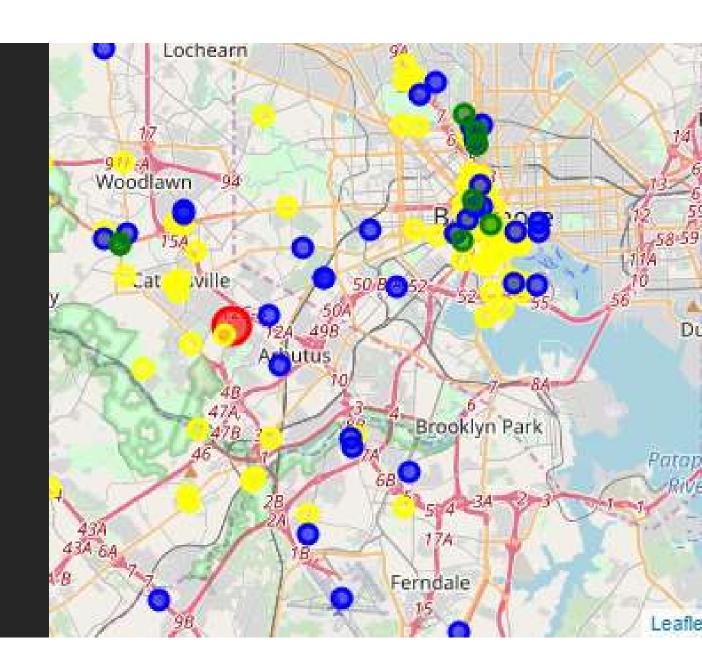
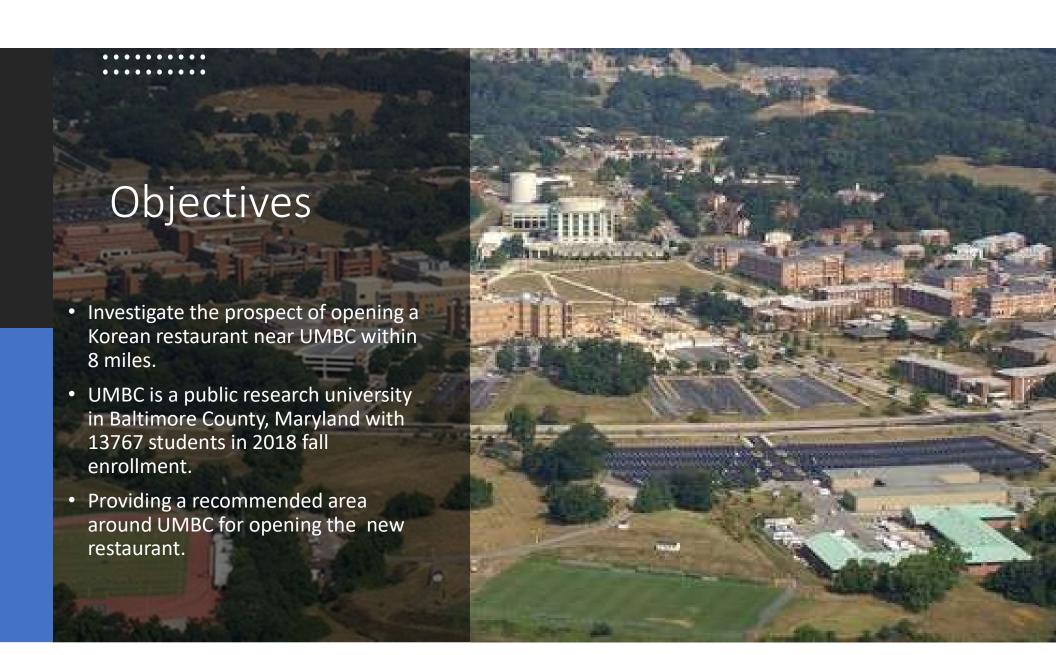
Battle of Neighborhoods

Kam Hin Ho





Modules & Data

- Nominatim module is imported from geopy.geocoders for coverting UBMC address to Latitude and Longitude.
- Foursquare data will be used to get information on venues near UMBC.
- Foilum module is used for visualization.
- The best area will be recommended based on criteria as follow:
 - 1. Competitions
 - 2. Number of surrounding popular attractions
 - 3. The distance between UMBC and the target area

EDA

• After cleaning the data, we explore the data of Korean restaurants and other restaurants from Foursquare.

0	Honey Pig Gooldaegee Korean Grill	Korean Restaurant	10045 Baltimore National Pike	39.278155	-76.859054	[{'label': 'display', 'lat': 39.27815455025927	12868	21042	US	Ellicott City	MD	United States	[10045 Baltimore National Pike, Ellicott City,
1	Brown Rice Korean Grill - N Charles	Korean Restaurant	2404 N Charles St	39.316494	-76.616977	[('label': 'display', 'lat': 39.31649388430755	10447	21218	US	Baltimore	MD	United States	[2404 N Charles St, Baltimore, MD 21218, Unite
2	Hasung Korean Chinese Restaurant	Korean Restaurant	822 N Rolling Rd	39.282827	-76.755043	[{'label': 'display', 'lat': 39.28282749246845	4614	21228	US	Catonsville	MD	United States	[822 N Rolling Rd, Catonsville, MD 21228, Unit
3	Tako Korean BBQ	Korean Restaurant	NaN	39.283731	-76.622569	[{'label': 'display', 'lat': 39.28373081379521	8214	NaN	US	Baltimore	MD	United States	[Baltimore, MD, United States]
4	Nak Won Korean	Korean Restaurant	12 W 20th St	39.312479	-76.617032	[{'label': 'display', 'lat': 39.31247942203527	10172	21218	US	Baltimore	MD	United States	[12 W 20th St (at Charles St), i

EDA – Cont.

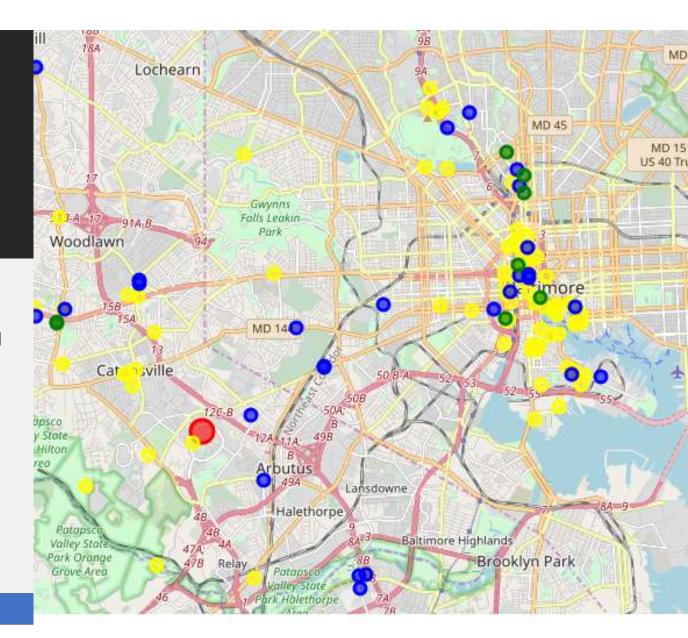
```
']: # Visualize the Korean restaurants that are within 8 
df_krest_filtered.name
```

```
Honey Pig Gooldaegee Korean Grill
1]: 0
          Brown Rice Korean Grill - N Charles
    1
             Hasung Korean Chinese Restaurant
                              Tako Korean BBQ
                    Nak Won Korean Restaurant
    6
                      Cham Mat Korean Cuisine
                      Brown Rice Korean Grill
    12
                            Be.bim Korean BBO
                      Brown Rice Korean Grill
    14
             Tian Chinese & Korean Restaurant
    15
           Han Sung Korean / Japanese & Sushi
    16
   Name: name, dtype: object
```

 There are total 17 Korean restaurants, and total 50 restaurants within the radius of 8 miles from UMBC.

EDA – Cont.

- We plot the top 100 popular venue within the radius of 8 miles of UMBC and visualize the restaurant data.
- Red Marker: UMBC
- Green Marker: Potential Korean restaurant competitors
- Blue Marker: Potential restaurant competitors
- Yellow Marker: Top 100 popular venues



Conclusion

 According to our result, it is recommended to open a new restaurant/ Korean restaurant around Catonsville and Woodlawn area. (Indicated with red square) It is because the competition between similar type of Korean restaurants and other restaurants are relatively small comparing to downtown Baltimore. Moreover, the Catonsville area has quite a few popular attractions, and the distance is relatively shorter than downtown Baltimore.

