

Finding a location for a restaurant in Chicago, IL

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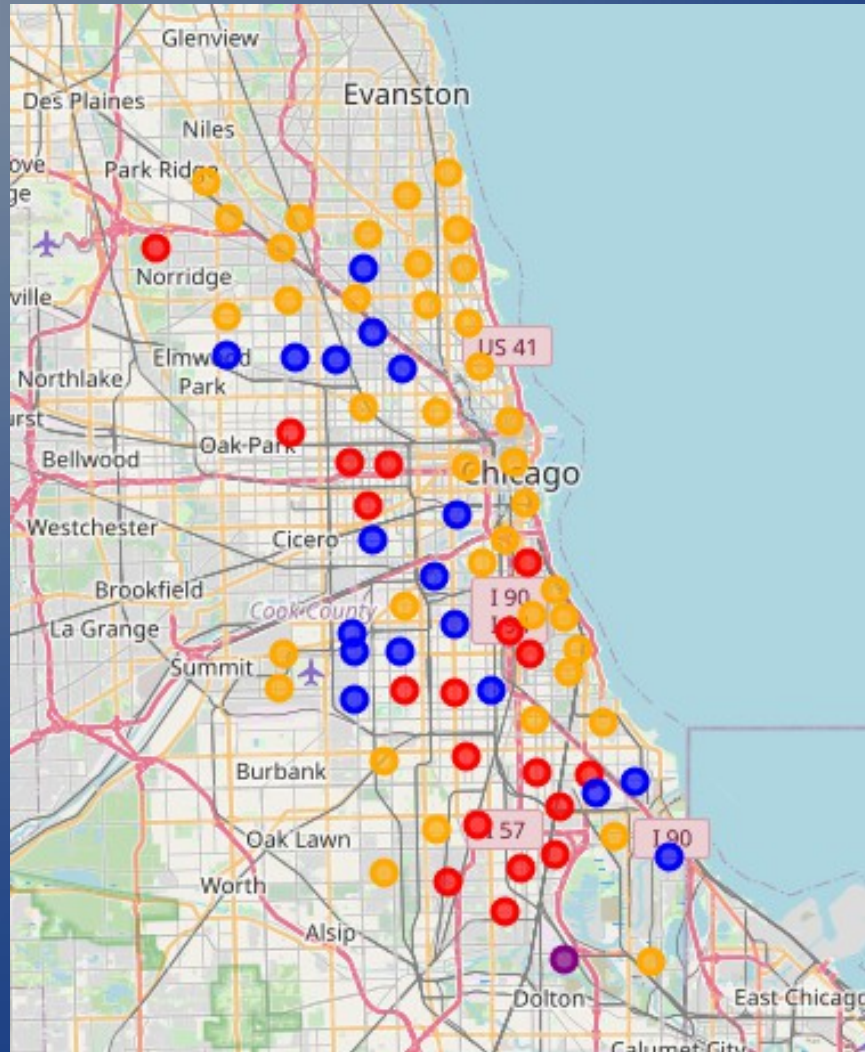
Classifying Chicago Community Areas that would be ideal locations for opening a restaurant for cyclists.

- There are a growing number of people who choose to ride bicycles instead of driving
- It is unlikely for these people to bike to locations where the area is unfriendly to cyclists
- Areas that have access to bike racks, by default are more bike friendly

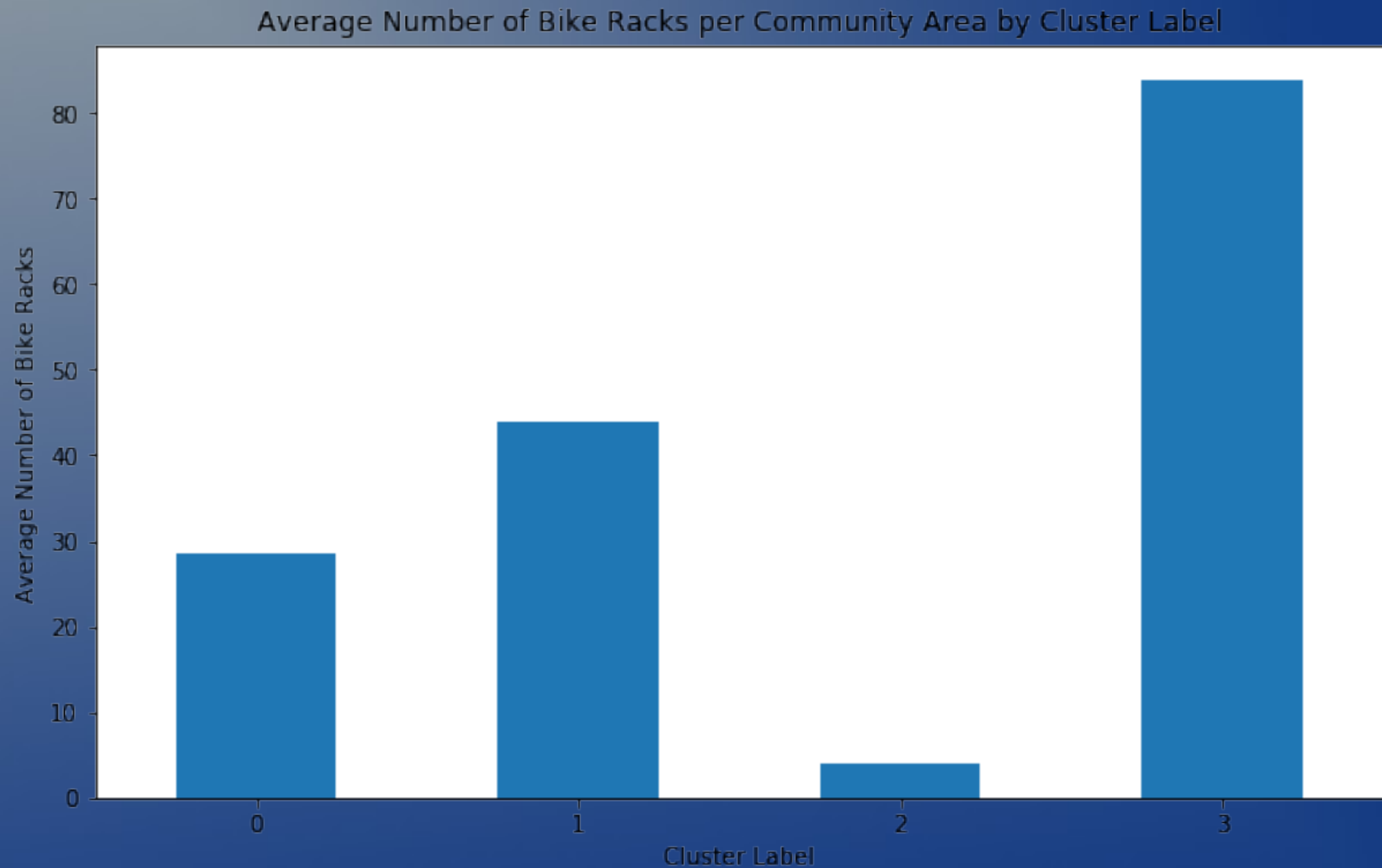
Data acquisition and cleaning

- Bike rack location data was acquired from the website Kaggle
- Venues were then determined by using a FourSquare API call using it's explore function
- 165 unique venues were found across 77 different Community Areas

Clusters were then determined based on the venues of each community area

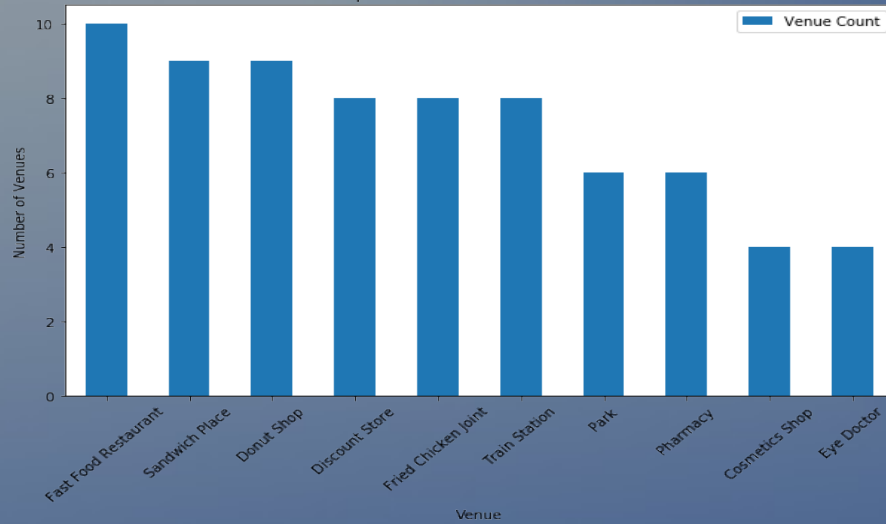


Average number of Bike Racks per Community Area by Clusters

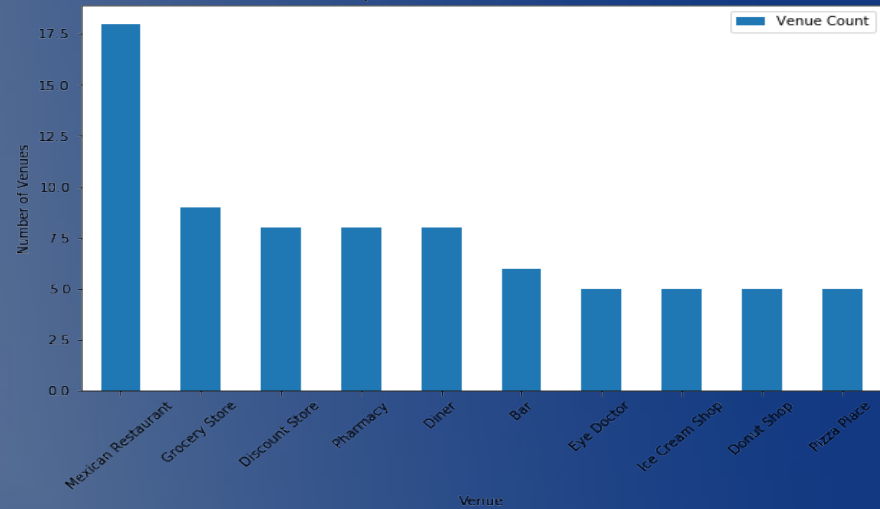


Top Venues by Cluster

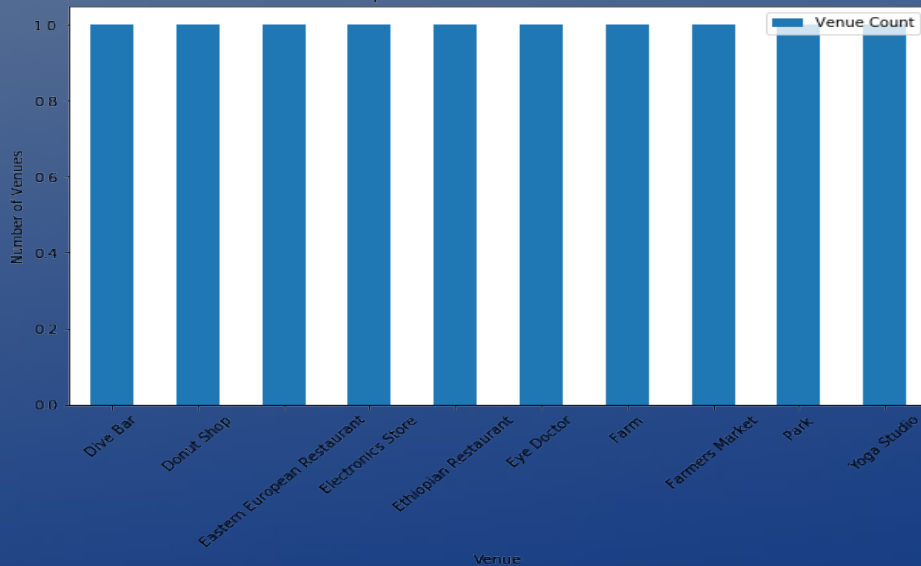
Top Ten Venues for Cluster Zero



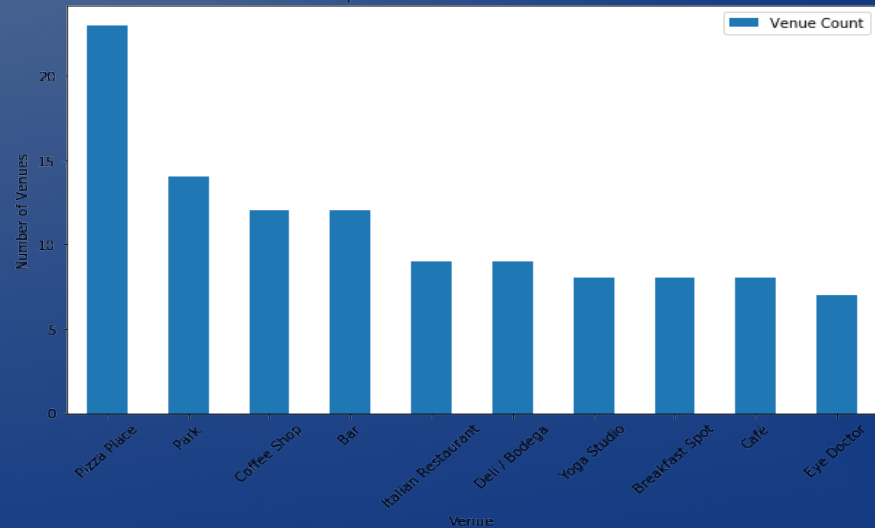
Top Ten Venues for Cluster One



Top Ten Venues for Cluster Two



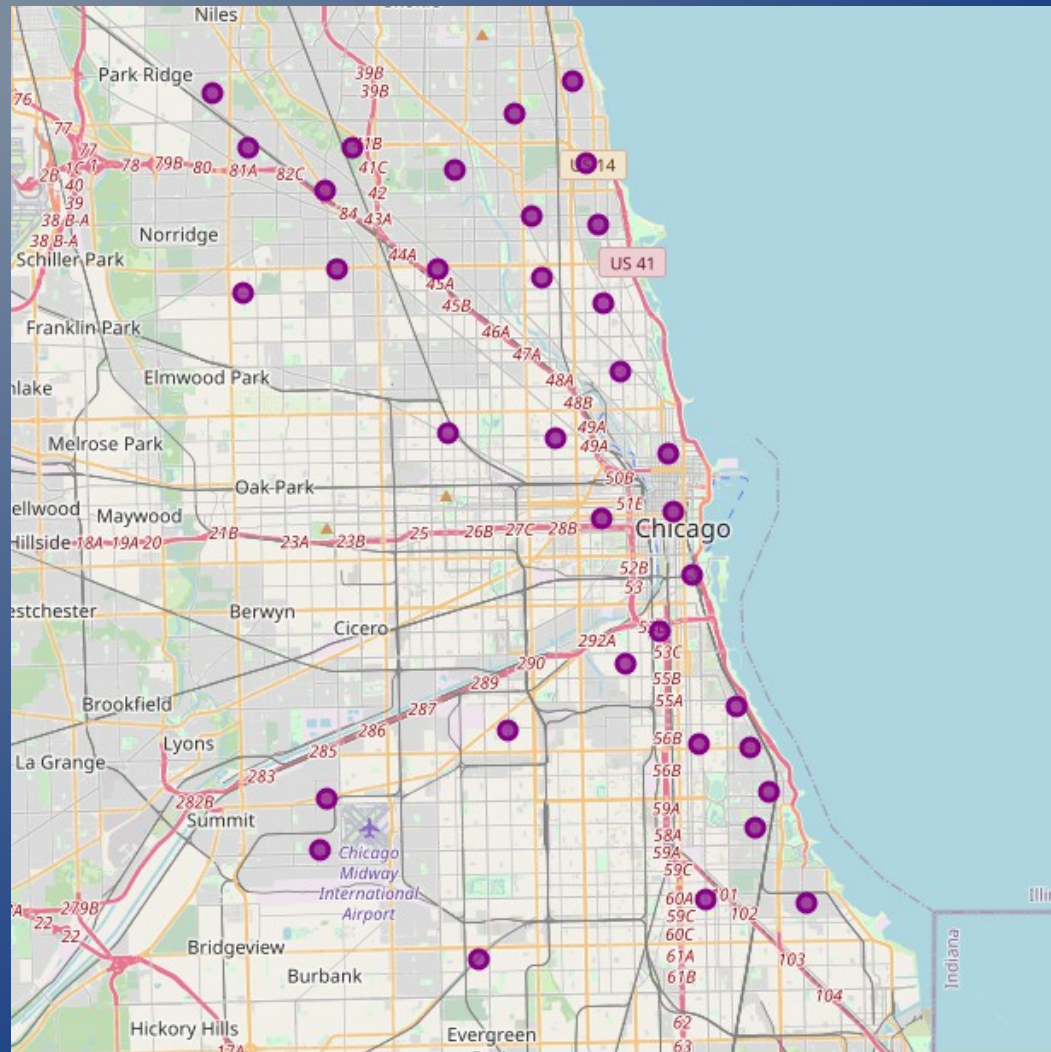
Top Ten Venues for Cluster Three



Conclusions

- Cluster Three has the most bike racks per community area
- Cluster Three also has the most restaurants in the top venues
- Cluster Three has the biggest potential for a cyclist friendly restaurant

Community Areas of Cluster Three



List of Community Areas that are good choices for restaurant locations

Armour Square	Ashburn	Beverly	Bridgeport	Brighton Park
Clearing	Dunning	Edgewater	Edison Park	Forest Glen
Garfield Ridge	Grand Boulevard	Greater Grand	Crossing	Hegewisch
Humboldt Park	Hyde Park	Irving Park	Jefferson Park	Kenwood
Lake View	Lincoln Park	Lincoln Square	Loop	Mount Greenwood
Near North Side	Near South Side	Near West Side	North Center	North Park
Norwood Park	Oakland	Portage Park	Rogers Park	South Deering
South Shore	Uptown	West Ridge	West Town	Woodlawn