



BATTLE OF NEIGHBORHOODS

Hungarian Restaurant in Cleveland, OH

PROBLEM STATEMENT

- Is there a large enough Hungarian community in the US?
- Where is the best neighborhood to open a Hungarian Restaurant?
- What is the best time to open the restaurant?

PYTHON PACKAGES AND DEPENDENCIES:

- Pandas - Library for Data Analysis
- NumPy – Library to handle data /vectors
- JSON – Library to handle JSON files
- Geopy - To retrieve Location Data
- Requests – Library to handle http requests
- Matplotlib – Python Plotting Module
- Sklearn – Python machine learning Library
- Folium – Map rendering Library

FINDING THE BEST HUNGARIAN NEIGHBORHOOD IN 3 STEPS



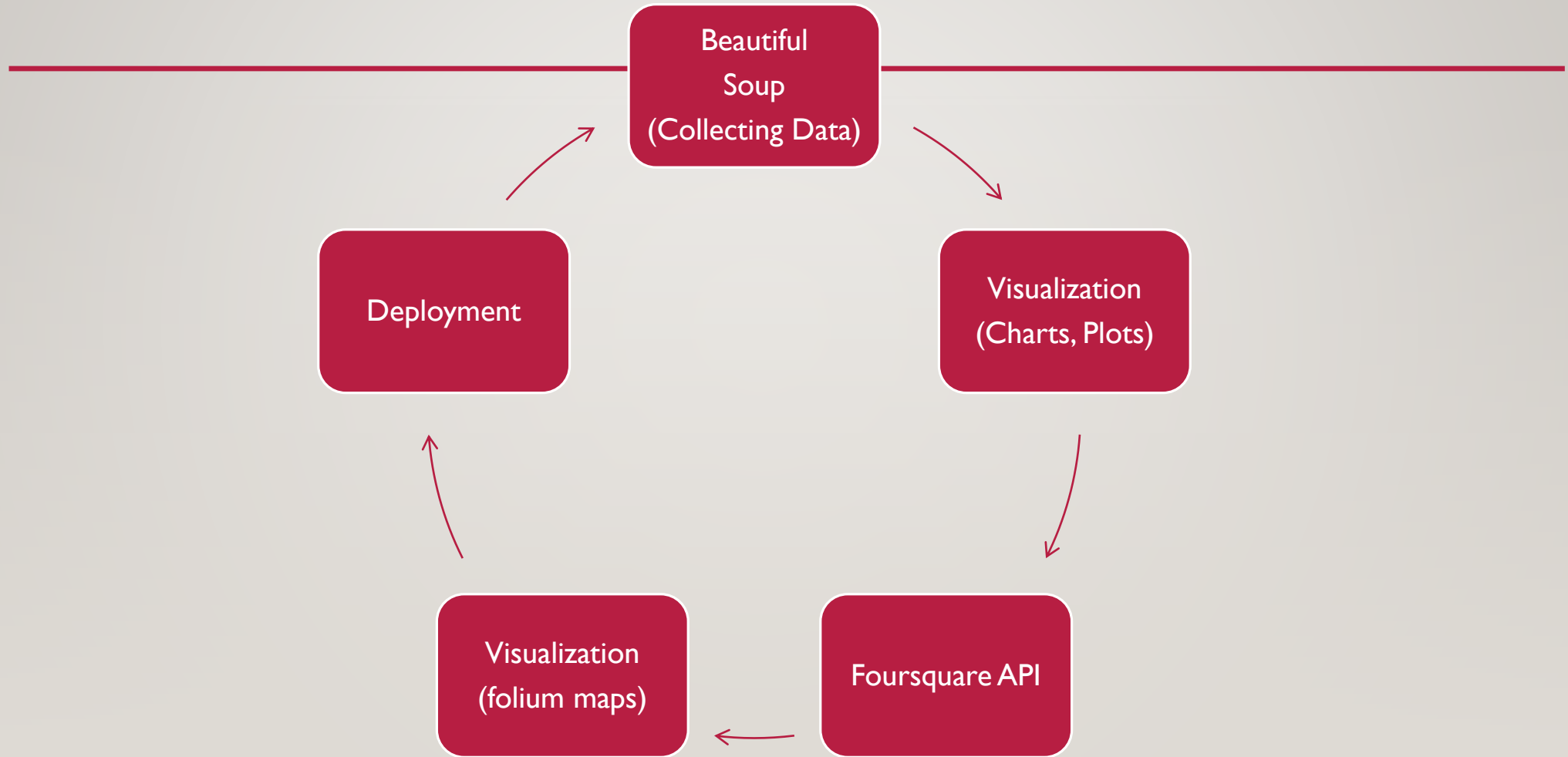
- Locate the largest Hungarian community in the US
- Find the best neighborhood within that area
- Is the time right to open a restaurant? (situation research)

WORK FLOW

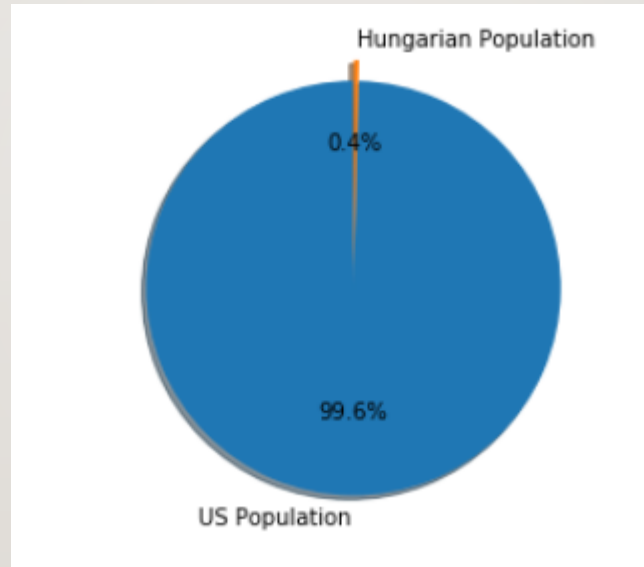
- WEB SCRAPING AND DATA WRANGLING
- VISUALIZATION
- OBSERVATION
- TOP TRENDING PLACES EXTRACTION AND CLUSTERING
- DECISION MAKING BASED ON THE FINDINGS



WEB SCRAPING AND DATA WRANGLING

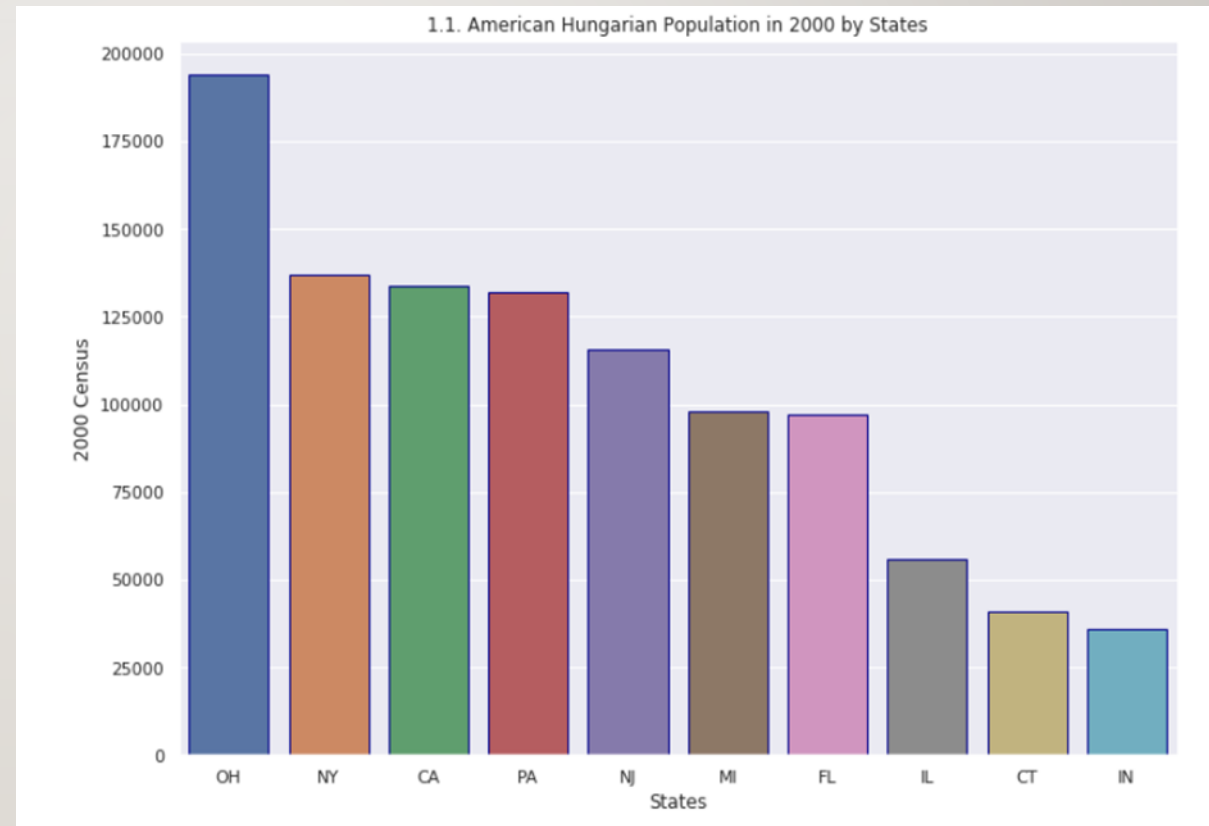


HUNGARIAN POPULATION IN THE US

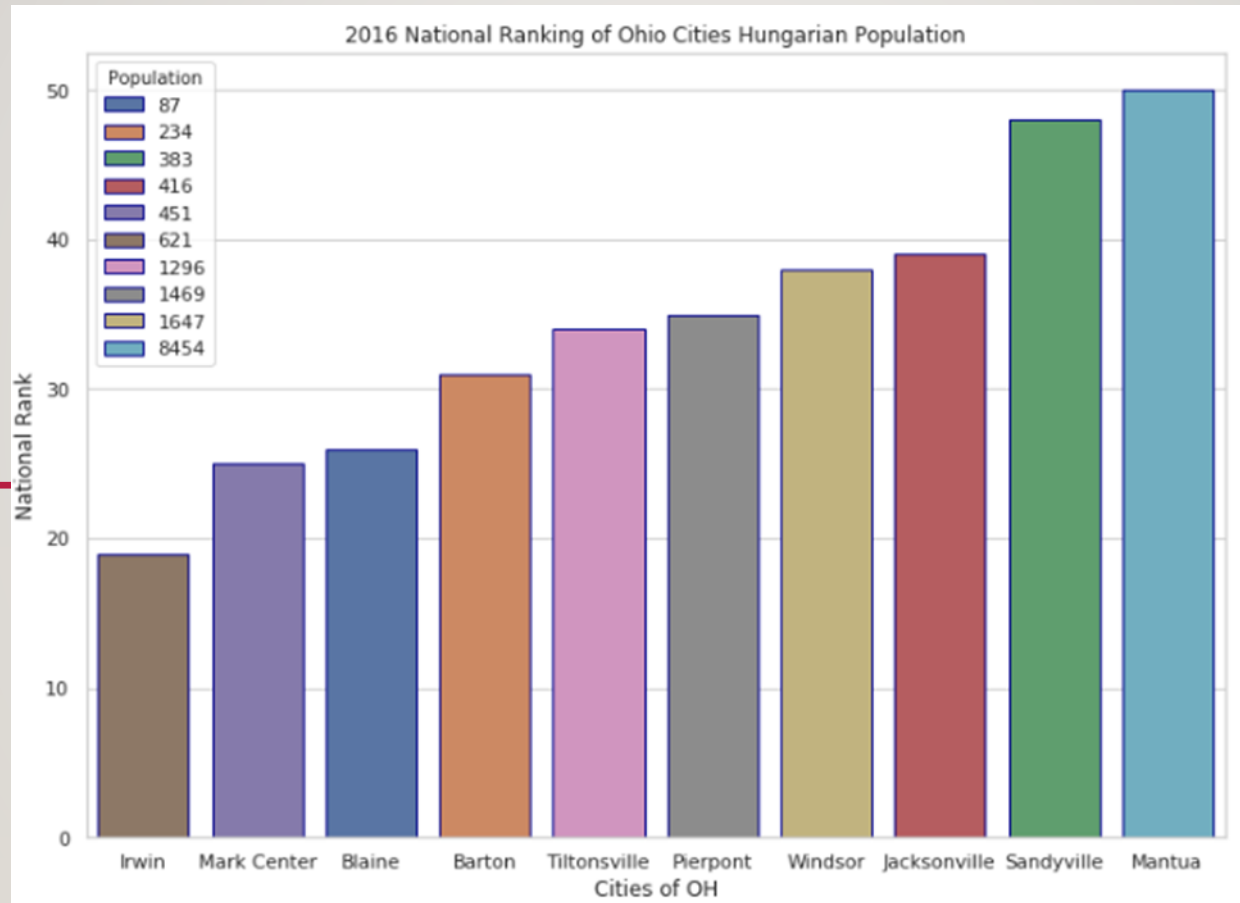


AMERICAN HUNGARIAN POPULATION BY STATES

- OH has the highest number

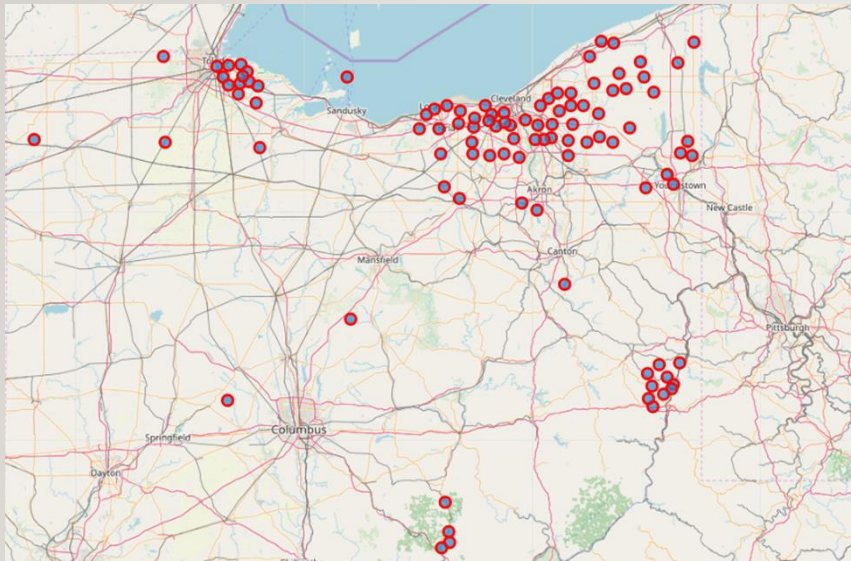


NATIONAL RANKING OF OH, US CITIES



100 CITIES RANKED BY HUNGARIAN POPULATION

RANKED CITIES ON THE MAP



RANKED CITIES CLUSTERS



A detailed map of Cleveland, Ohio, and its surrounding suburbs. The map shows the city's layout with major roads, highways, and the Lake Erie coastline. Blue dots are placed throughout the city and its suburbs, representing the locations of 25 bus rapid transit stations. The stations are distributed across various areas, including downtown Cleveland, East Cleveland, Cleveland Heights, University Heights, Shaker Heights, Beachwood, Warrensville Heights, Garfield Heights, and Brook Park. The map also shows the locations of major highways, such as I-90, I-480, and I-275, and the locations of major parks, such as Fairview Park and Brook Park. The map is a useful tool for understanding the proposed bus rapid transit system and its potential impact on the city and its residents.

Four Square API and Clustering

Four Square API
Neighborhood
Venue
Category
Coords

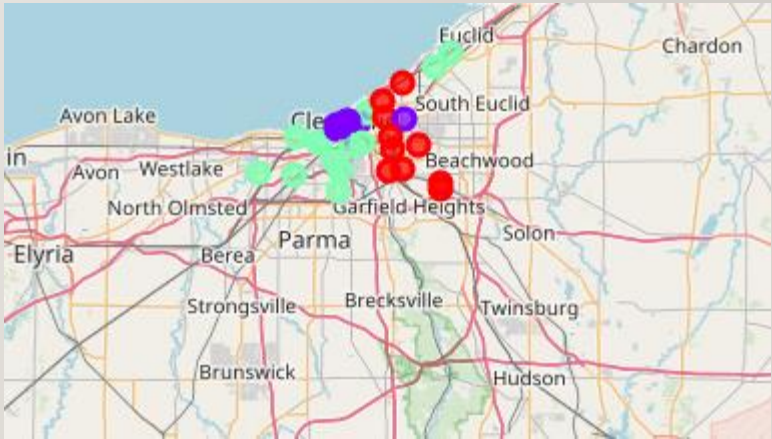
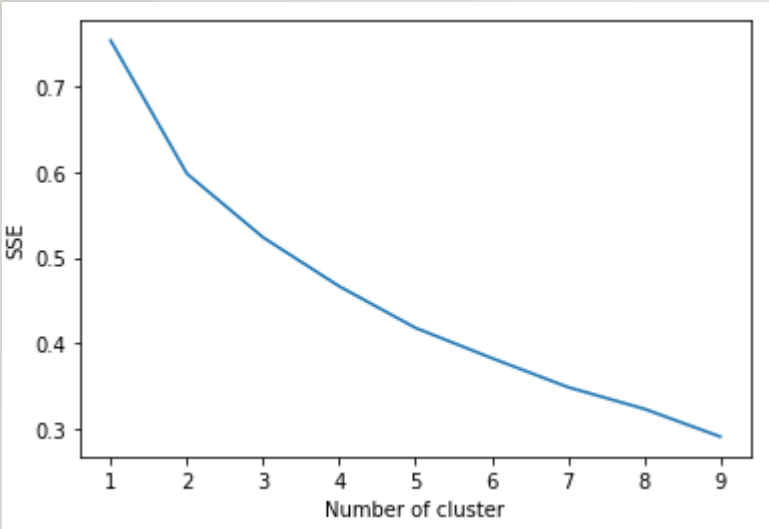
One Hot
Encoding
Labels to
Numbers

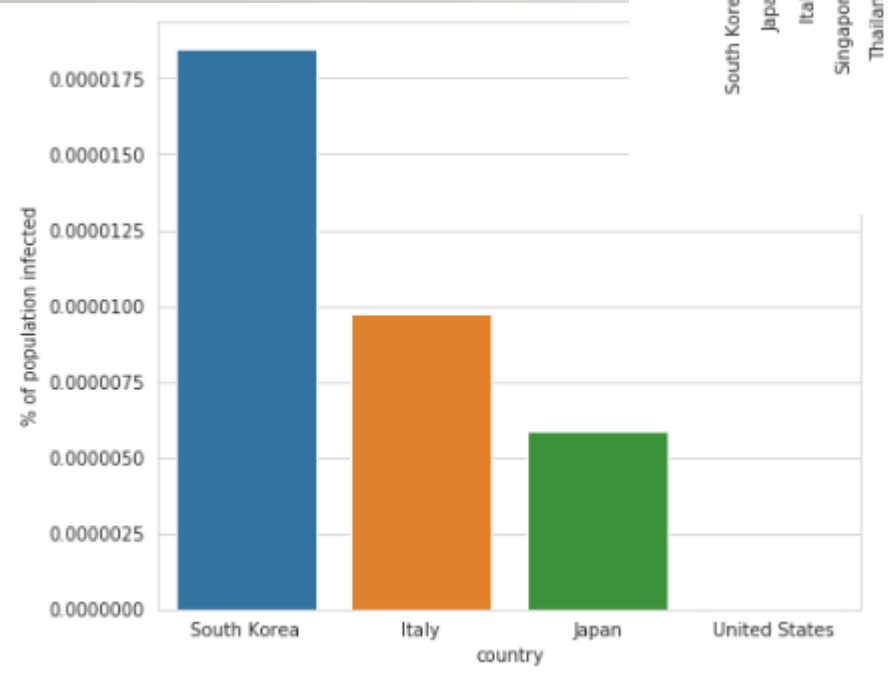
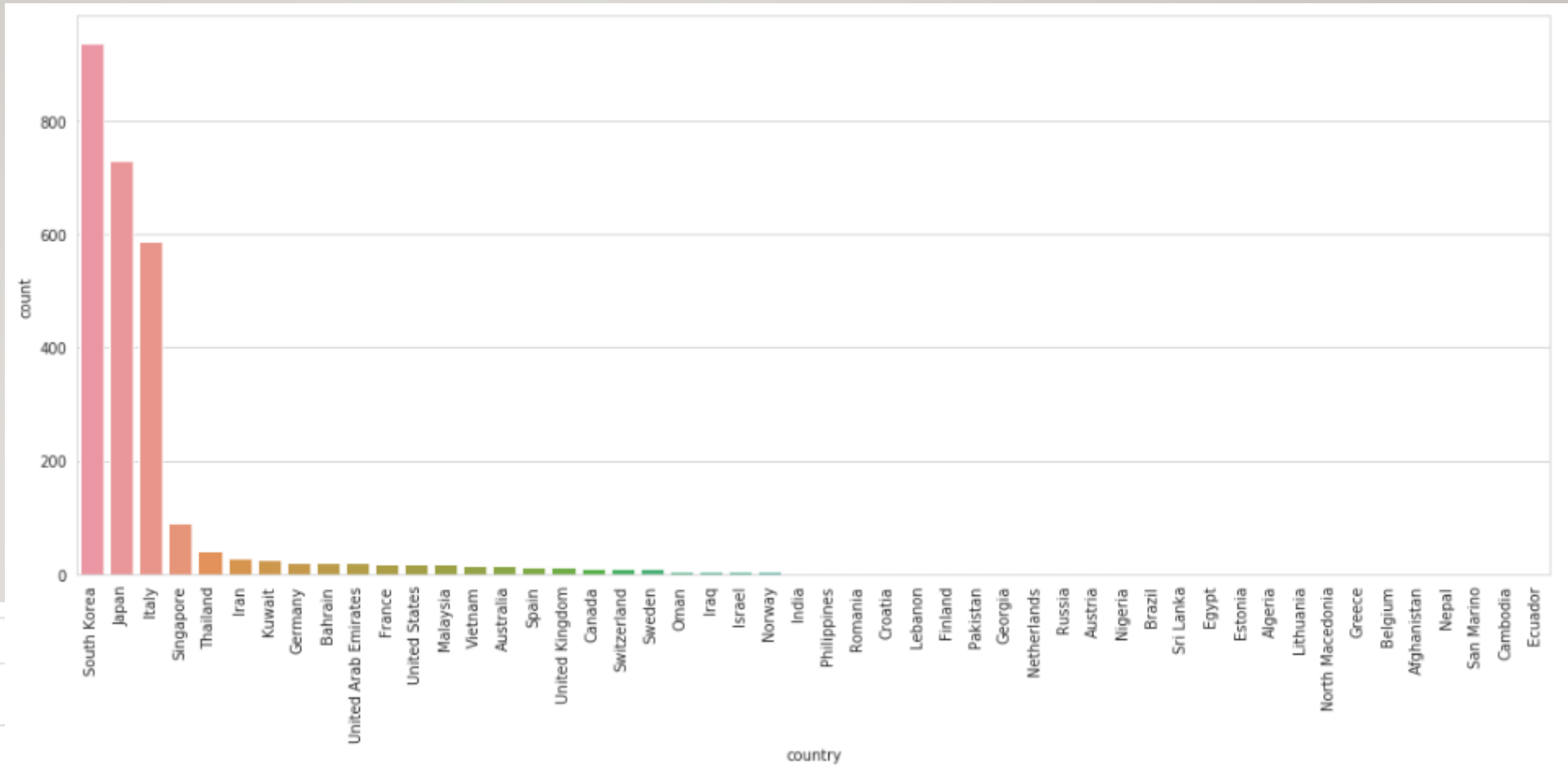
Venues
Grouped by
Neighborhoods
236 Unique
Veues

K-Means
Clustering

ELBOW AND SILHOUETT ANALYSIS

	Neighborhood	Hungarian Restaurant	Cluster Labels	Latitude	Longitude
0	Asiatown, Cleveland	0.000000	2	41.512940	-81.664390
1	Bellaire–Puritas, Cleveland	0.000000	2	41.449201	-81.763176
2	Broadway–Slavic Village	0.000000	0	41.453470	-81.633230
3	Brooklyn Centre	0.000000	2	41.453790	-81.700520
4	Buckeye–Shaker	0.016667	0	41.479950	-81.593280





COVID-19

COVID-19 BY THE NUMBERS

	Date	Confirmed	Deaths	Recovered	Active
0	2020-03-13 00:00:00	145193	5404	70251	69538

JO ETVAGYAT KIVANOK!

By Csillag Gates

software developer

