

Contoso BATTLE OF NEIGHBOURHO OD

COURSERA CAPSTONE PROJECT





VENUE RECOMMENDATION FOR UNITED STATES OF AMERICA VISITOR'S

INTRODUCTION

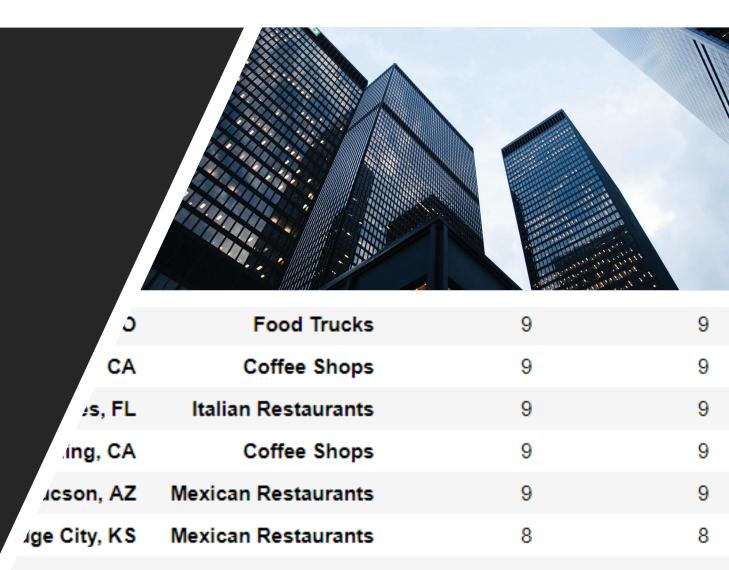
The intention on this project is to collect and provide a data driven recommendation that provides a alternative to statistical data. recommendations.





DATA DESCRIPTION

- • Data Requirements for this project:
- Neighborhood Information (i.e. name, coordinates, populations).
- • Venue information (i.e. name, category, coordinates)
- Data Sources for this project:
- • Zillow Home
- Foursquare.com
- Data Processing for this project:
- Data cleaning is required
- Data needs to be in a structured format



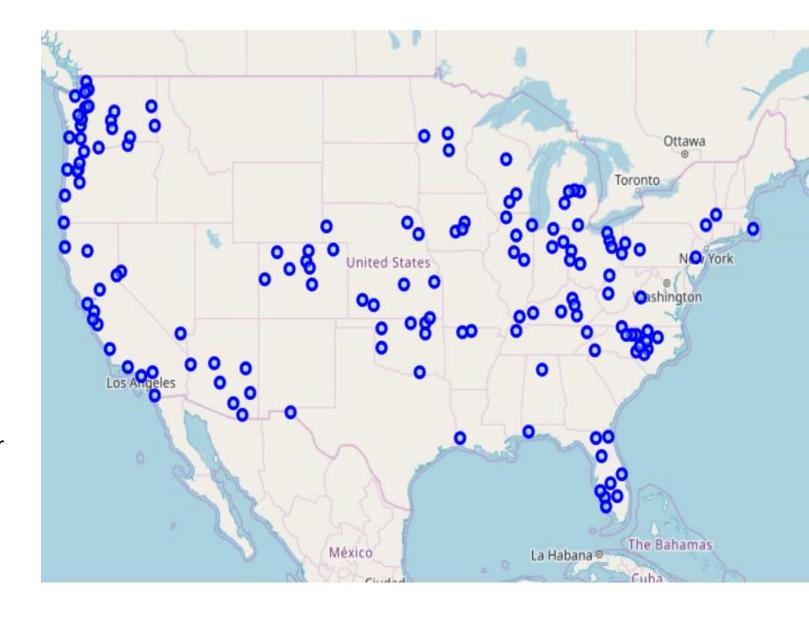
METHODOLOGY

Data Cleanup and re-grouping

- Drop/Ignore cells with missing data
- Use most current data
- Fix data types

Segmenting and Clustering

- Using FourSquare to get nearby venues by different categories and
- Using K-means to cluster neighbour





RESULT

Top 10 Recommended Venue in Food Category Type Ice Cream Shops Italian Restaurants Coffee Shops Bakeries Restaurants American Restaurants Cafés Sandwich Places

Pizza Places



CLUSTERING AND SEGMENTING

Clustering Similar Neighbourhoods

Grouping Based on common venues

Grouping based on food venues

Grouping based on Outdoors and Recreation

Mexican Restaurants

GROUPING CITY AND FOOD VENUE BASED ON SCORE

Out[74]:

		Town Latitude	Town Longitude	VenueID	VenueName	score	catID	latitude	longitude
Town	category								
Portland, OR	Coffee Shops	16	16	16	16	16	16	16	16
Seattle, WA	Coffee Shops	15	15	15	15	15	15	15	15
Salinas, CA	Mexican Restaurants	10	10	10	10	10	10	10	10
El Paso, TX	Mexican Restaurants	10	10	10	10	10	10	10	10
Las Vegas, NV	American Restaurants	9	9	9	9	9	9	9	9
Edwards, CO	American Restaurants	9	9	9	9	9	9	9	9
Fort Collins, CO	Food Trucks	9	9	9	9	9	9	9	9
Santa Cruz, CA	Coffee Shops	9	9	9	9	9	9	9	9
Naples, FL	Italian Restaurants	9	9	9	9	9	9	9	9
Redding, CA	Coffee Shops	9	9	9	9	9	9	9	9
Tucson, AZ	Mexican Restaurants	9	9	9	9	9	9	9	9
Dodge City, KS	Mexican Restaurants	8	8	8	8	8	8	8	8
Tulsa, OK	American Restaurants	8	8	8	8	8	8	8	8
Des Moines, IA	Coffee Shops	8	8	8	8	8	8	8	8
				_	-	-	-		-

DISCUSSION

- Portland and Seattle Coffee shops have higher ratings and are most frequently visited compared to major cities
- Most common Food Venues are Coffee Shops, Mexican Restaurant and Pizza places
- Pizza places, American Restaurants and Italian Restaurants are most frequently visited





THANKYOU



