

APPLIED DATA SCIENCE CAPSTONE
THE BATTLE OF NEIGHBORHOOD

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INTRODUCTION: Business Problem

Austin is the capital city of the U.S. state of Texas and the seat of Travis County, with portions extending into Hays and Williamson counties. Austin, the southernmost state capital of the contiguous 48 states, is located in Central Texas. Austin is 146 miles (230 km) northwest of Houston, 182 miles (290 km) south of Dallas and 74 miles (120 km) northeast of San Antonio.

In Austin, there are an incredible variety of international cuisines and some of the most talented chefs in the world. Austin's thriving economy, multicultural demographic, access to ingredients, and great seasonal produce makes it an ideal place for restaurants to flourish.

The objective of this project is to identify the list of Indian restaurants in Austin, TX area and visualize the data for understanding easily. There are variety of both north indian and south indian restaurants are available in Austin area.

DATA

The following data sources will be needed to extract/generate the required information: -

a. Google maps

b. Austin Eater(<https://austin.eater.com/maps/best-indian-restaurants-austin-south-asian>)

c. Foursquare API(<https://foursquare.com/top-places/austin/best-indian-restaurants>)

I this project, I have used Foursquare API to fetch and organize data

METHODOLOGY:

A list of all Indian Restaurants in Austin is obtained by scraping the corresponding webpage specified in the Data section. Using GeoPy Nominatim geolocator, the neighborhood coordinates are obtained. Also, folium map is created.

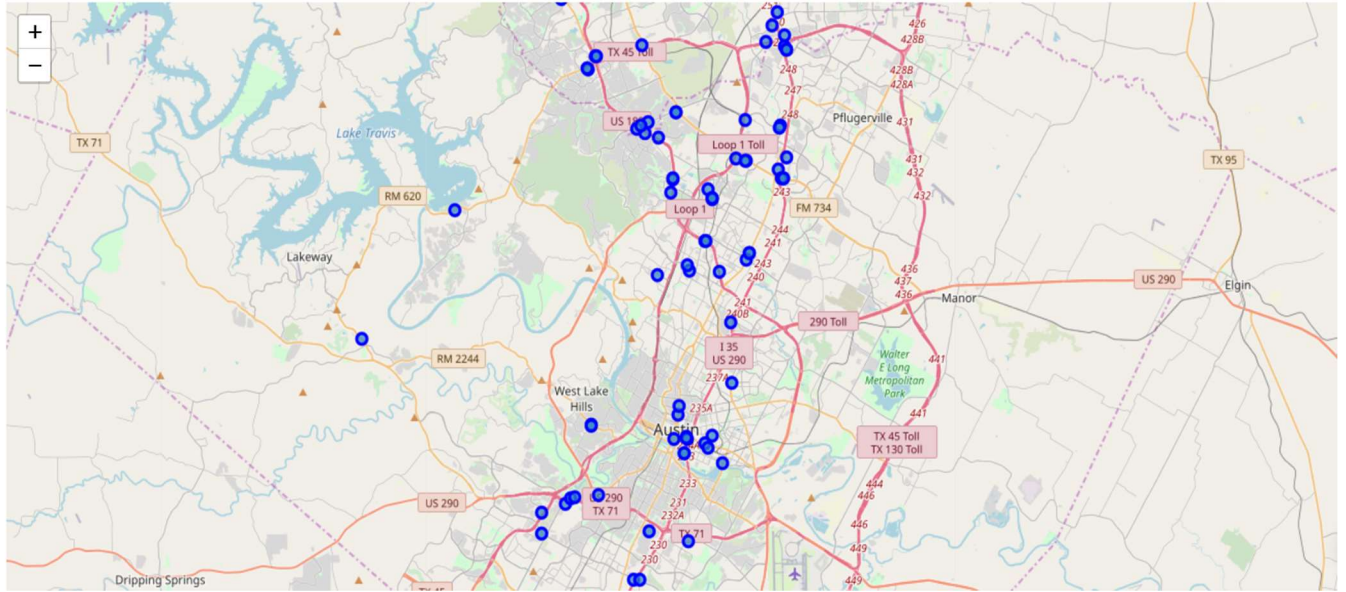
RESULTS:

	ID	Name	Category	Zip	Latitude	Longitude
0	4283ee00f964a520b8221fe3	The Clay Pit	Indian Restaurant	78701	30.279001	-97.742453
1	4fba7fefe4b05dd0d72db3eb	Tarka Indian Kitchen	Indian Restaurant	78757	30.357091	-97.735322
2	4ab192a5f964a5200c6a20e3	Tarka Indian Kitchen	Indian Restaurant	78745	30.231031	-97.817509
3	4f1344c8e4b03856f23b5e8b	Asiana Indian Cuisine	Indian Restaurant	78745	30.190519	-97.772478
4	4b1219b8f964a5200e8923e3	G'Raj Mahal Cafe	Indian Restaurant	78701	30.258324	-97.738793
5	51678475e4b033680b2b9c30	Teji's Indian Restaurant	Indian Restaurant	78705	30.283947	-97.742057
6	5565fe94498e38737acbb7c4	Saffron Indian & Nepalese Cuisine	Indian Restaurant	78731	30.354800	-97.756009
7	49ce2f24f964a5201c5a1fe3	Bombay Express	Indian Restaurant	78753	30.411125	-97.676020
8	440ec935f964a520a0301fe3	Star Of India	Indian Restaurant	78757	30.359569	-97.736675
9	4b3bf6c6f964a5205a7f25e3	Teji's Indian Restaurant	Indian Restaurant	78681	30.510775	-97.694479
10	4513f1adf964a520c9391fe3	Bombay Bistro - Research Blvd	Indian Restaurant	78759	30.398904	-97.747320
11	567ecc23498e44dfa1aabedb	Tarka Indian Kitchen	Indian Restaurant	78758	30.400802	-97.722877
78	57681095498e991e374da845	Evans BBQ - Indian & Pakistani	Indian Restaurant	78259	29.636999	-98.451681
79	5bbab304250cab002cb2f309	Jubilee Indo-Pak Restaurant	Indian Restaurant	78259	29.636059	-98.452418
80	5ad39eddc47cf95978575569	East Buffet	Indian Chinese Restaurant	78744	30.190350	-97.768070
81	54387cc1498e918b44b83d7c	Nala's, The Culinary Expert	South Indian Restaurant	78613	30.531939	-97.779939
82	59dd072ca6fe4d7ffcb8d427	Puli-Ra	South Indian Restaurant	78652	30.216429	-97.761980
83	57b216e9498ec8f7e477a0bb	Bollywood Indian Grill	South Indian Restaurant	78758	30.395756	-97.720139
84	577e8883498eeb45aae5bafb	Indian Food Truck Thursdays	North Indian Restaurant	78759	30.428542	-97.755073
85	582662c97448d25adae125a2	Bawarchi Biryani Point	South Indian Restaurant	78729	30.435287	-97.767616
86	5b79ead7840fc2002c98aa66	Sangam Chettinad Indian Cuisne	South Indian Restaurant	78727	30.442171	-97.743990
87	576d869a498e62822f36a0c4	Godavari	South Indian Restaurant	78728	30.433937	-97.675073
88	58e6468ee1109534ed940b7b	Biryani-N-Grill	South Indian Restaurant	78717	30.472608	-97.797085
89	5c6a21f8178a2a002c74aea5	Salt N Pepper	South Indian Restaurant	78613	30.526979	-97.808058
90	5607532a498e3a95ff3efb5a	Bombay to Kathmandu Kitchen	Indian Chinese Restaurant	78753	30.366632	-97.695473

From the data frames above, it is observed that Austin has 90 Indian Restaurants around that area.

DISCUSSION:

As I stated above, using folium I created a map with the venues which is showing the Indian Restaurants in Austin area as shown below.



CONCLUSION:

The analysis brought the list of Indian Restaurants in Austin area using Foursquare API.