

Business Opportunities in Hyderabad

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1. Introduction

Utilizing the Location based and venue related data for Hyderabad city, perform an analysis to find and report different business opportunities location wise, so that whenever someone wants to open a restaurant or a shopping mall, they can make use of this analysis to get insights and ideas about where to start the business within Hyderabad. This will help the people to make a better decision about their business faster and also its very insightful as well.

We will study about the existing businesses, where they are located and how they were distributed across the city using the information obtained through Foursquare API and Wikipedia data.

2. Data Collection and Curation

We will get the data using the following sources

1. https://en.wikipedia.org/wiki/List_of_neighbourhoods_in_Hyderabad
2. <https://geopy.readthedocs.io/en/stable/>
3. Foursquare API

The first one has the data related to different locations and neighbourhoods in Hyderabad, we will use the geopy library methods to fetch the latitudes and longitudes of different neighbourhoods in the city and the Foursquare API to get the different venue details around each geographical location. Then we pre-process the data to extract relevant features for further analysis. The following is a sample of the final dataset we will use.

neighborhood	section	city	latitude	longitude	venue_id	venue_name	venue_lat	venue_lon	venue_cat_id	venue_cat_name
ameerpet	Central	Hyderabad	17.4375012	78.4482505	5050c114e4b1	Mekong	17.43715127	78.45430121	4bf58dd8d48988	Chinese Restaurant
ameerpet	Central	Hyderabad	17.4375012	78.4482505	4bac7d4df964	10 Downing Street	17.43586817	78.45744349	4bf58dd8d48988	Pub
ameerpet	Central	Hyderabad	17.4375012	78.4482505	4c543cc07289	Kebabs & Kurries	17.43237414	78.45758519	4bf58dd8d48988	Indian Restaurant
ameerpet	Central	Hyderabad	17.4375012	78.4482505	4e1b27cbd22	ITC Kakatiya	17.43251403	78.45735256	4bf58dd8d48988	Hotel