The Battle of Neighbourhood: Vishakhapatnam

IBM DATA SCIENCE CAPSTONE PRESENTATION

Problem statement:

How to choose a right place to start a new restaurant? What type of restaurant will work good?

- Background:
- One who wants to start a business in a city with high density population and good climatic conditions my project will help to find which type of business will work. Restaurants are the good to start in a city like Vishakhapatnam. Beach cities will have good night life for food.

Target Audience:

First focus is on middle class public who choose to have different varieties of food with high quality at reasonable cost.

Stakeholders:

Who are willing to start a restaurant or food business in Vishakhapatnam or nearby areas?

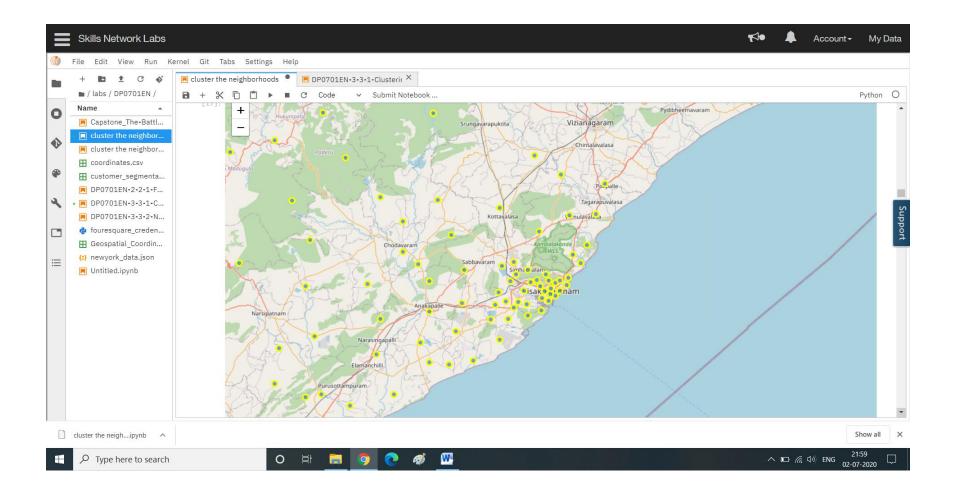
Source of the data:

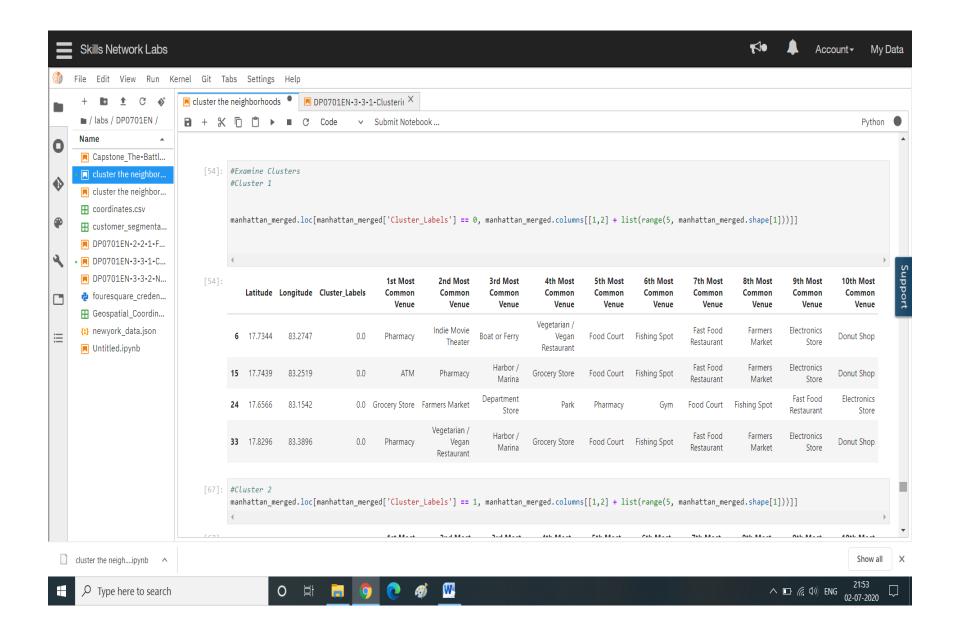
- All neighbouring coordinates of Vishakhapatnam.
- https://finkode.com/ap/visakhapatnam.html
- And all the coordinates are collected from Google search engine and made a Excel .csv file.

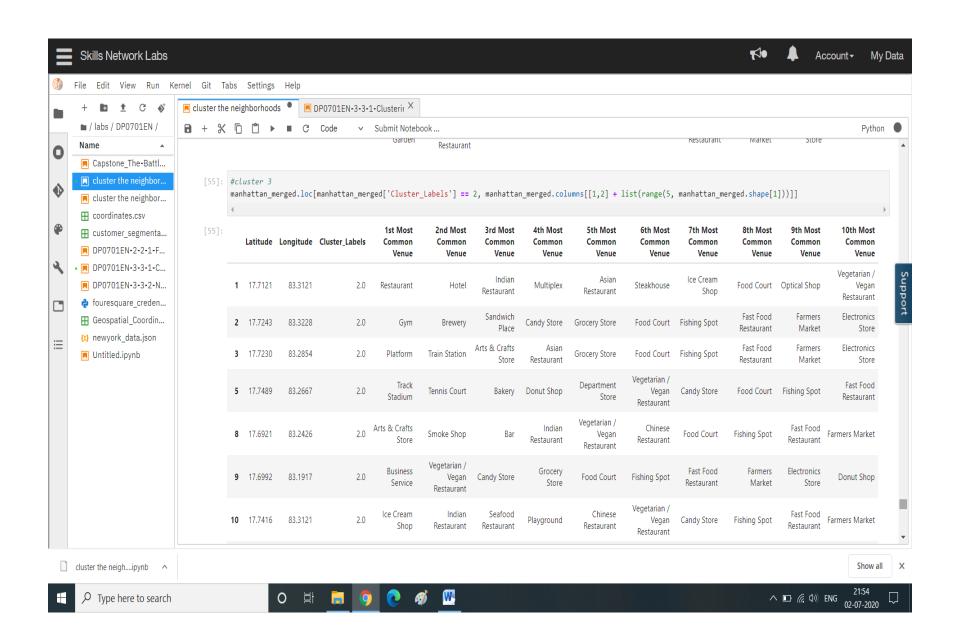
Methodology:

- All the coordinates using postal codes in and around Vishakhapatnam are identified.
- Using Fouresquare credentials, json file was decoded for respective coordinates.
- Venues with same postal codes are merged together into a data frame.
- These merged data is divided into 5 clusters and analysed which was the most visited venue.

Results:





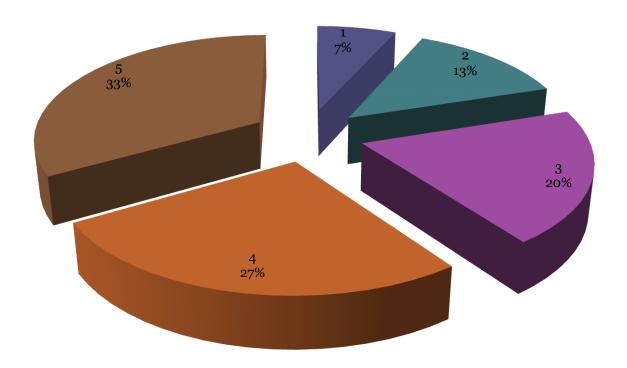


OBSERVATIONS:

Cluster number	No. of postal codes Covered	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue
1	4	Pharmacy	Theatre	Ferry
2	1	Sculpture garden	Veg. Restaurant(1)	Candy store
3	14	Bakery -2 Restaurant -2 Ice cream shop - 1	Restaurants -5 Hotel -2	Restaurants- 4 Food courts- 2 Hotels - 1
4	1	Fishing spot	Veg restaurant	Candy store
5	1	Harbour	Veg restaurant	Candy store

PERCENTAGE OF VENUES AT DIFFERENT CLUSTERS

Cluster number



CONCLUSION:

• It is observed that cluster-3 is having more number of coordinates. Food business is also going fine there. 27% of postal codes are covered in this region and more number of food courts established here. So, we can suggest stakeholders to go with any of those 14 coordinates and start a new variety of food business.