

# IDENTIFYING OPPORTUNITIES IN GURGAON FOR OPENING UP A CLINIC

Coursera capstone project

# DESCRIPTION OF THE PROBLEM

Gurgaon is among the fastest growing Indian cities and is one of the biggest IT and consulting hubs of India

For its healthcare needs it relies primarily on the major hospitals in Delhi given its close proximity to the capital city

There seems to be a growing need for new hospitals and clinics to be set up within the city to cater to the growing healthcare requirement

**A client has approached us to identify an area within the city which is the most underserved when it comes to outpatient clinics**

We will **leverage Foursquare** to identify the most optimal location

# DESCRIBE THE DATA

There will be three data sources which will be used as part of this assignment:

1. **Foursquare API:** The Foursquare Places API provides location based experiences with diverse information about venues, users, photos, and check-ins. The API supports real time access to places, Snap-to-Place that assigns users to specific locations, and Geo-tag. Additionally, Foursquare allows developers to build audience segments for analysis and measurement. JSON is the preferred response format.
  - Foursquare API will be used in the assignment to generate a list of hospitals and clinics as per communities within Gurugram
  - Foursquare “Venues” data provided for a particular location will be used

Source: <https://www.programmableweb.com/api/foursquare>

# DESCRIBE THE DATA

2. **finkode.com:** Finkode provides Postal Code data for communities at city level. It will be used to get postal codes for all communities that are within the Gurugram jurisdiction.
  - Web scraping of the data table in the site will be done and Beautiful soup library will be used to extract the relevant data
3. **Pgeocode:** pgeocode is a Python library for high performance off-line querying of GPS coordinates, region name and municipality name from postal codes. Distances between postal codes as well as general distance queries are also supported. The used GeoNames database includes postal codes for 83 countries.
  - This library will be used to generate latitude and longitude for the pin codes captured from finkode.com.

Source: <https://pypi.org/project/pgeocode/>



# METHODOLOGY

Part of Week 5 assignment



# RESULTS

Part of Week 5 assignment



# DISCUSSION AND RECOMMENDATION

Part of Week 5 assignment



# CONCLUSION

Part of Week 5 assignment