

IBM Capstone Project Report

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Problem Description

Mr. X is coming to Kolkata for the first time to join his duty at an office at Sector V, Kolkata. He is supposed to rent out a flat in an apartment that will not be so far from his office. There must be certain amenities like restaurants, movie theatres etc nearby the apartment. Budget will also be another consideration compared to the facilities. He is absolutely new to Kolkata. So, he has no idea about the locality and its facilities, features, amenities, convenience etc. How will he decide, where to rent out?

In this project I shall try to demonstrate a comprehensive result of various localities in Kolkata with total number of Restaurants of different cuisines, Movie Theatres, Playgrounds, Gyms, Park, Shopping Mall, Market, Swimming Pool, Nightclub, ATM, Pub etc. along with average rent for 1 BHK, 2 BHK and 3 BHK flats in each locality and its distance from Sector V. This will help Mr. X to easily decide where to rent out to do his office more conveniently!

Data Description

For this project I primarily I shall the data from two source:

1. makaan.com which a real estate property listing website to buy, sell and rent. I am going scrape one of its page (<https://www.makaan.com/price-trends/property-rates-for-rent-in-kolkata>) to get the average rent for 1 BHK, 2 BHK and 3 BHK flats in various localities in Kolkata.

2. The Foursquare API : basically the explore API will be used to get the venues of facilities within 2 KM radius of each locality. Total count of different types facilities will be calculated along with their Latitude and Longitude with another Pandas Library. Those count will be vital to choose a locality! I shall also calculate the distance from each locality to Sector V using these Latitude and Longitude. This distance is also another important factor when choosing a locality for rent out!