

MEDICAL STORE

OPENING

INTRODUCTION

BACKGROUND:

FIRST PROBLEM WHILE OPENING A MEDICAL STORE IS ITS LOCATION. DEPENDING ON THE PERFECT LOCATION ONE CAN EARN OR LOSS A LOT OF MONEY.

PROBLEM:

MAIN GOAL OF THIS PROBLEM IS TO FIND OUT IF KARACHI IS A PERFECT PLACE TO OPEN A MEDICAL STORE.

INTERSET:

MAINLY THIS IS HELPFUL FOR THE BUSINESSMAN WHO IS LOOKING FOR A PLACE TO OPEN A MEDICAL STOREL OR WHO IS GOING TO INVEST MONEY ON A MEDICAL STORE.

Data We Need:

- NEIGHBORHOODS OF MUMBAI
- THEIR CO-ORDINATES
- VENUE DAT

Source of Data:

- **FOURSQUARE API FOR VENUE DATA**
[https://en.wikipedia.org/wiki/Category:Neighbourhoods of Karachi](https://en.wikipedia.org/wiki/Category:Neighbourhoods_of_Karachi)
- **PYTHON BEAUTIFULSOUP TO EXTRACT THAT**
- **PYTHON GEOCODER FOR CO-ORDINATES.**

Methodology:

- * EXTRACTING DATA FROM THE WIKI PAGE USING BEAUTIFULSOUP
- * EXTRACT THE NEIGHBORS OF KARACHI CITY
- * GET THEIR CO-ORDINATES USING GEOCODER
- * USE THESE CO-ORDINATES TO GET DATA FROM FOURSQUARE API
- * GET TOP 100 RESULTS WITHIN 2000 METERS BY MAKING THIS CALL
- * GET A JSON OUTPUT
- * EXTRACT NAME, CATEGORY AND CO-ORDINATES
- * FILTER MEDICAL STORE AS VENUE CATEGORY
- * K-MEANS CLUSTERING BASED ON THE FREQUENCY OF MEDICAL STORE
- * ANSWER WHICH PLACE IS BEST FOR MEDICAL STORE

Result:

There are three kinds of clusters.

1. Red: Low numbers of Medical Store
2. Purple: High density of Medical Store
3. Light Blue: Medium density of Medical Store



Conclusion:

As red markers indicate low numbers of Medical Store, it is best to open Medical store there. By this the investor can get much more benefits.