

Spatial Informatics Project Mid Report

Name: Anvita Reddy

Roll No: 2019115009

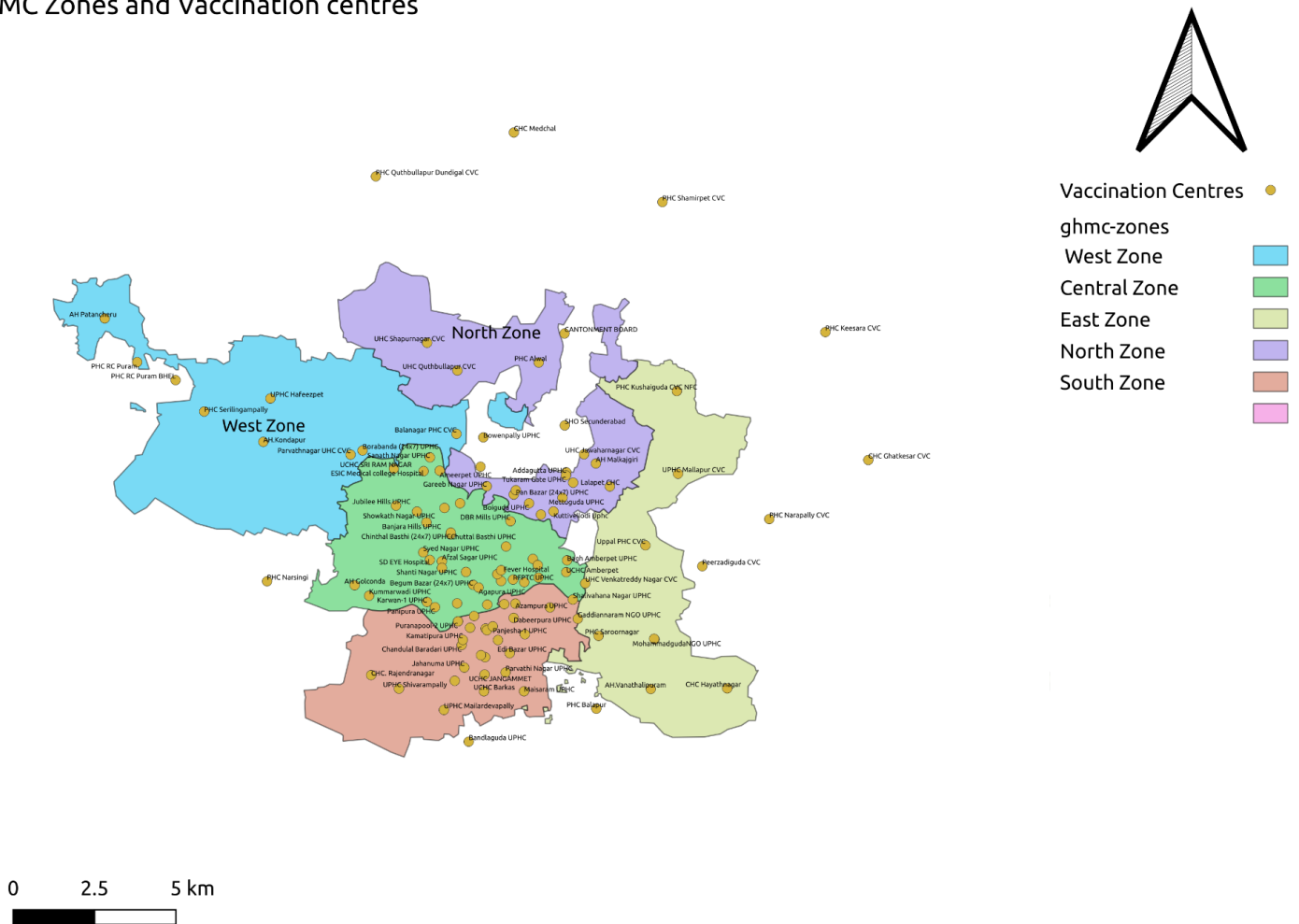
Project name: **Finding nearest Covid-19 Booster Vaccine Centers in Hyderabad (GHMC)**

Tasks Done: **Data Collection**

- Going with the initial idea, I started off by collecting the data about all the vaccination centers in Hyderabad city from the GHMC official website:
<https://www.ghmc.gov.in/announcements/List%20of%20Vaccine%20Centers.pdf>
- Then I made my own dataset by manually collecting the lat, long coordinates for each of the 119 government vaccination centers in
: <https://docs.google.com/spreadsheets/d/1NCoOsZhH3NnpysQVHJScnKfLffkdP3ZwkOk3vcTsDLE/edit?usp=sharing>
- Then I collected the GHMC area and zonal shapefiles online from: https://github.com/datameet/Municipal_Spatial_Data/tree/master/Hyderabad
(only data available online, may not be accurate)

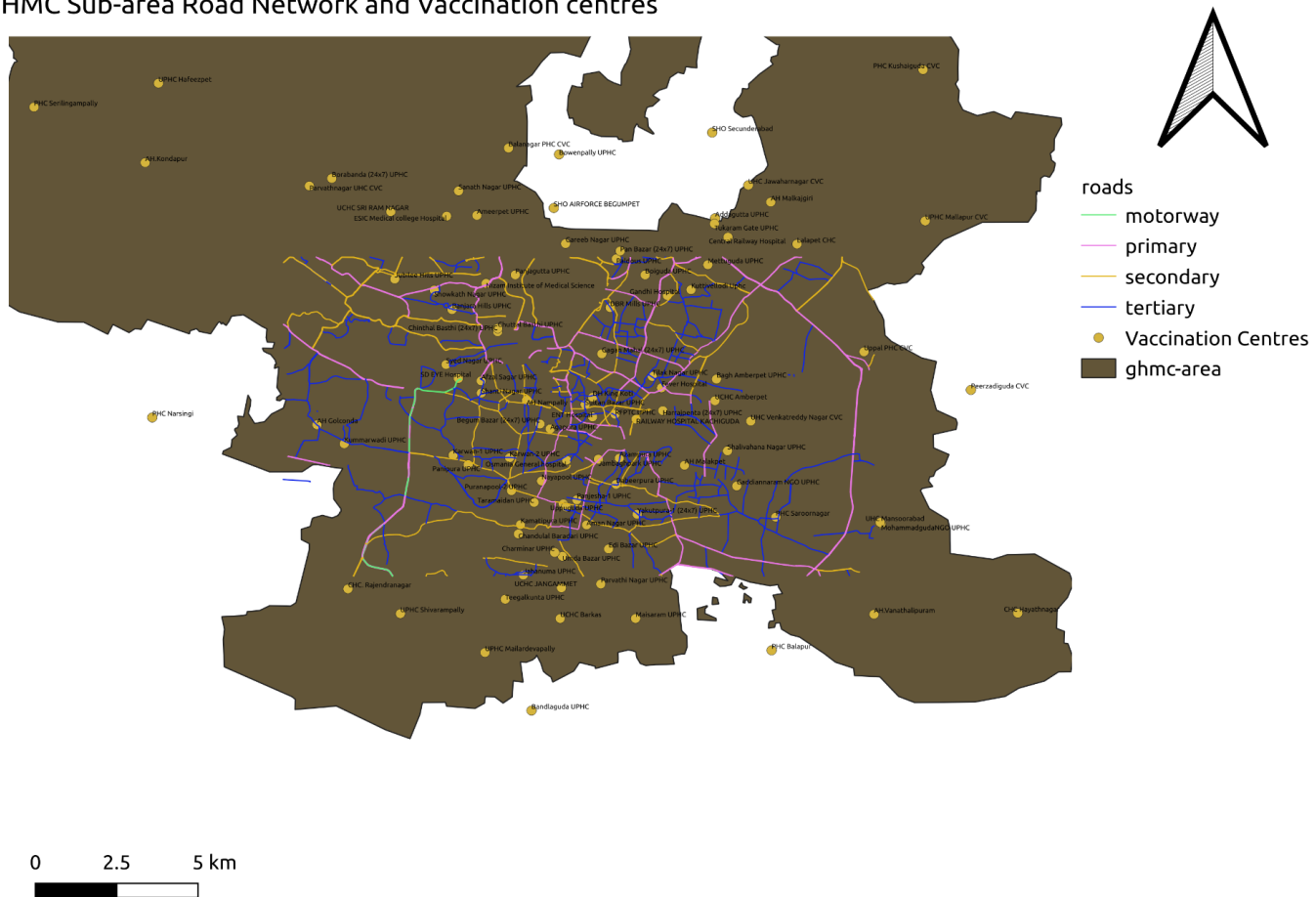
After overlaying the two, the map looked like

GHMC Zones and Vaccination centres



- Collecting the road data was of much difficulty since there were no accurate and legitimate sources available online. After much digging around I found this website: <https://extract.bbbike.org/>. Then I collected data for GHMC area, where it gave a variety of roads, of which I shortlisted only the following ones:

GHMC Sub-area Road Network and Vaccination centres



While in the process of data collection, I came across the website:

https://maps.mapmyindia.com/corona?corona_new_cases_yesterday

Which has already implemented and made available a web API to find nearest vaccination center all over India when given coordinate location or address. This along with the unavailability of sufficient and quality road data halted my project a little and have therefore decided to change my project idea to do a kind of visualization to depict the alterations in vaccinations given compared against factors like total populations in each zone/ward and further divide it into susceptible population of each zone/ward of GHMC area. I would try to give a sort of visualization which depicts and establishes a path for analysis between the vaccination centers of the city and the demographic factors of the particular place and see the variations or trends, if any. For this idea, the further data required would be the demographic data, GHMC wards data.

This was one of the ideas I came across while brainstorming, and will be consulting Rajan sir before moving forward with it.