

Capstone Project - The Battle of Neighborhoods (Week 1)

Data Section

Data Sources & Strategies:

Based on definition of our problem, For COVID-19 following are the main data sources as researched:

- <https://www.kaggle.com/sudalairajkumar/covid19-in-india>
- Information tracked on daily basis <https://api.covid19india.org/data.json>
- Number of Active Cases/Cured Cases/Deaths
- Data for mumbai covid-19 cases is sourced <http://stopcoronavirus.mcgm.gov.in/>
https://github.com/shasaankdave/Coursera_Capstone/blob/master/Containment_Zones_BMC_Mumbai.pdf
- Details about mumbai Pincodes, Area, Borough (Called BMC Wards) are sourced [https://data.gov.in/resources/all-india-pincode-directory-along-contact-details & only mumbai's pincodes & details are extracted](https://data.gov.in/resources/all-india-pincode-directory-along-contact-details-&-only-mumbai's-pincodes-&-details-are-extracted).

We decided to use folium maps with latitude & longitude to display covid-19 zones, cluster & testing facilities

Latitude & Longitude based on Pincodes of mumbai are obtained using **Google Maps API geocoding**

Details about COVID-19 testing labs in mumbai are collected as follows

- Testing Labs in mumbai are selected using <https://www.kaggle.com/sudalairajkumar/covid19-in-india>
- Further Details about Hospitals/testing labs are got from **Foursquare API** using **categoryId parameter** in the request URL to select hospital as venue category example venue categoryId for hospitals : "4bf58dd8d48988d196941735"
- Refer for more details : <https://developer.foursquare.com/docs/build-with-foursquare/categories/>