Identifying Corona Hotspots in Mumbai Ward Wise:

Abstract:

Corona Virus is spreading across the India, especially seeing the increase in numbers there is need to start identifying hot spots based on the some analysis, so that we can have a complete lockdown. Here with the help of data given we tried to categorize the various wards of Mumbai into various zones.

- Red - Hotspot
- Orange - Alert
- Blue - Awareness
- Green - Safe

Snapshot of Data:

input_file_v1_dashboard: It consists of demographic details ward wise.

	Country	State	City	Ward location	Ward	Population	Density per square kilometer	Senior citizen %	Area	Educational institutes	Hospitals	Supermarts/malls	Critical congestion points	Commercial complexes
0	India	Maharashtra	Mumbai	Colaba	A	210847	16868.0	0.14	12.50	54	40	20	0	0
1	India	Maharashtra	Mumbai	Sanhurst Road	B	140633	56936.0	0.14	2.47	48	32	32	0	0
2	India	Maharashtra	Mumbai	Marine Lines	C	202922	114001.0	0.14	1.78	43	23	21	0	0
3	India	Maharashtra	Mumbai	Grant Road	D	382841	57744.0	0.14	6.63	23	43	21	0	0
4	India	Maharashtra	Mumbai	Byculla	E	440335	59505.0	0.14	7.40	32	57	12	0	0

Facilities_in_Mumbai_COVID_19_Cases: It consists of number of cases ward wise as well as its nature.

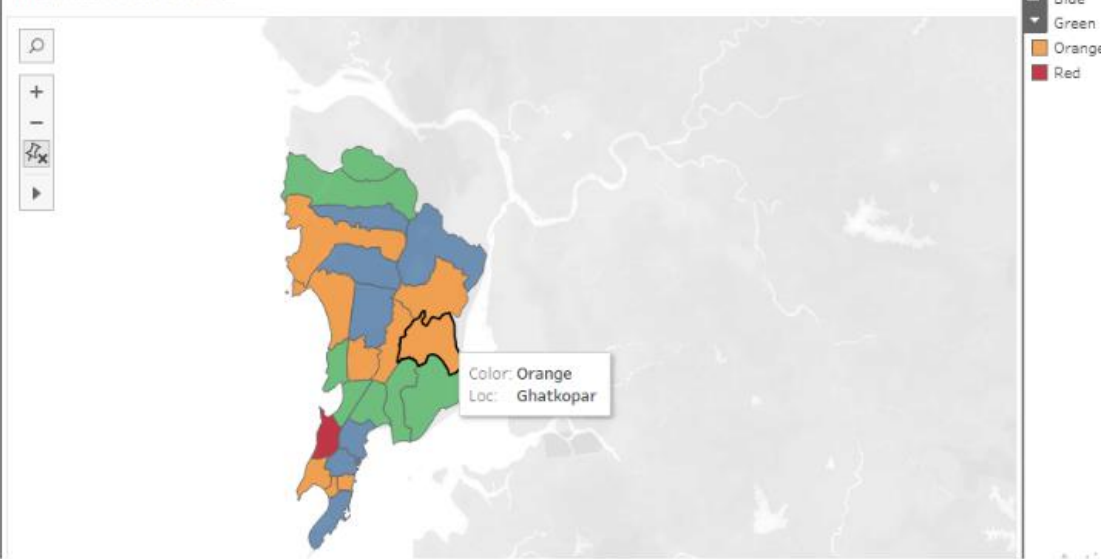|	Ward	Number of Cases- Very Congested Area	Number of Cases- Medium Congested	Number of Cases- Standalone Structure	Date Entered
0	NaN	NaN	NaN	NaN	11th April or Earlier
1	A	1.0	NaN	5.0	NaN
2	B	3.0	NaN	12.0	NaN
3	C	3.0	NaN	9.0	NaN
4	D	3.0	3.0	18.0	NaN

Results:

We created the dashboard using tableau which help us to understand the spread across Mumbai ward wise. Also, importantly it also takes care of resolution whether we are using mobile of Desktop screen.

Below image clearly helps to distinguish corona virus spread across various wards. Also, we can hover over the map to see ward name eg we can see Orange (Alert) for ghatkopar.
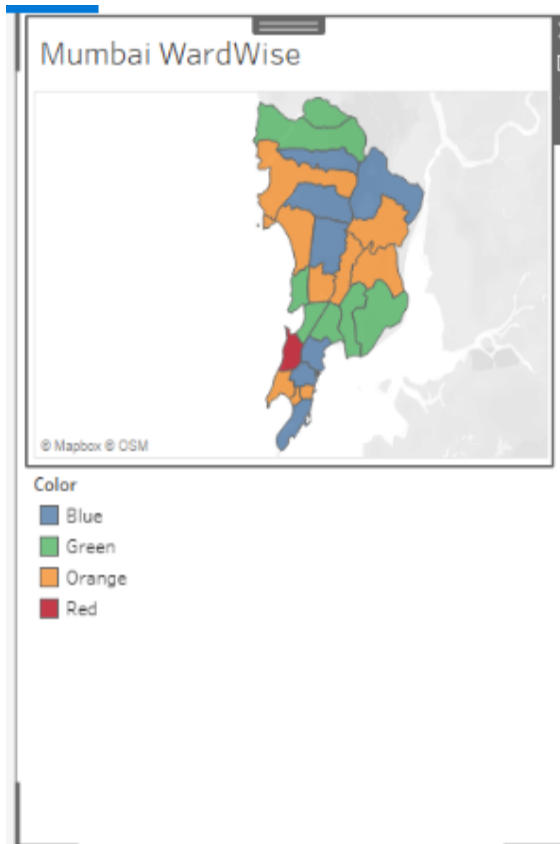
Spread of Corona (Desktop View)
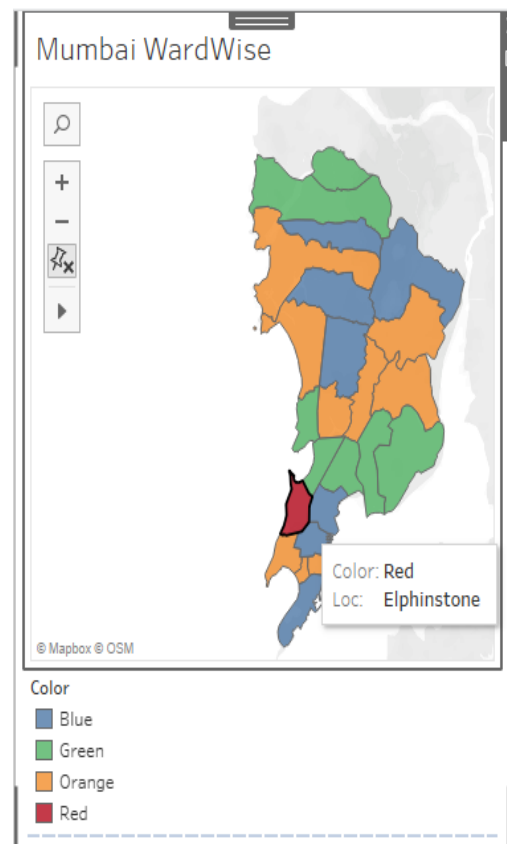

Spread of Corona (Mobile View)

Mobile View   Mobile View(With Hover)