

Assignment 1

1. Select the State of your residence and one more state of your choice in India.

2. Carry out a literature survey to collect the COVID-19 data with regard to as many parameters as possible, from the list mentioned below (Other parameters may be added if required). March 2020 to 12th Sept 2020

3. Represent these parameters as suitable figures (Graphical representations) and attempt to do relevant statistical analysis to the best of your ability for each parameter.

1. Total number of confirmed cases
2. Total number of deaths
3. Total number of recovered cases
4. Total number of active cases
5. Death rate
6. Case fatality ratio
7. Cases with co morbidities
8. Recovery rate
9. Cases per million
10. Cases affected Gender wise
11. Cases affected age wise
12. Deaths gender wise
13. Deaths age wise
14. Recovery gender wise
15. Recovery age wise
16. Testing numbers
17. Month wise Progression in numbers from March to Sept 2020
18. Doubling time
19. Testing rates – Month wise from March to Sept 2020
20. Covid 19 community vulnerability index
21. 7/5 day moving averages
22. Flattening of curve
23. Case Prediction analysis