**IITB-ISRO-AICTE Mapathon**

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Details of the members of the group

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Data Used

1. Maharashtra Map with districts
2. Information on Corona Zones in Maharashtra

Steps in GIS

1. Download QGIS 3.16 from [here](https://qgis.org/en/site/forusers/download.html)
2. Download Maharashtra Districts Map from [here](https://d-maps.com/pays.php?num_pay=428&lang=en)
3. Refer the Information on Corona Zones in Maharashtra from [here](https://www.jagranjosh.com/imported/images/E/GK/mahararashtra-hotspot-map-new-updated.webp).
4. Click on Ctrl+Shift+R in the keyboard
5. Click on three dots next to the textbox which is next to ‘Raster dataset(s)’
6. Choose the Maharashtra districts map from the place you have saved it in.
7. Now we need to add a district in the map
8. Click on ‘Layer’ button in the toolbar and then click on click on ‘Create Layer’ in the dropdown menu and then click on ‘New Shapefile Layer...’ from the dropdown menu.
9. Specify the Geometry type as ‘Polygon’ then Click on three dots next to the textbox which is next to ‘File name’ and go to the file where you want to save the new layer and name it anything you wish and then click on ‘Save’ and then Click on ok.
10. Click on the pen symbol and then click on the  Add Polygon Feature symbol.
11. Trace any district on the map.
12. In the Layers panel right click on the new layer which we have added and click on ’Styles’ and then rotate the colour triangle to any colour you wish.
13. Repeat the steps 8 to 12 for the remaining districts.
14. Now we need to add the Labels in the map.
15. Click on F6 button in the keyboard
16. Click on Ctrl+E and then click on Ctrl+W in the keyboard
17. Type ‘Place’ in the textbox for Name and ‘Text (string)’ for Type and the Length as 20 and hit enter in the keyboard.
18. Type the Name of the district below the ‘Place’ column and then click on Ctrl+S in the keyboard.
19. Click on  Layer Labelling Options and then click in the second textbox and choose Single Labels and choose the Value as ‘Place’ in the dropdown menu
20. Repeat the steps 15 to 19 for the remaining districts.
21. Now we need to add the Legend and the Title.
22. Position the Map properly
23. Click on Ctrl+P in the keyboard and type any name.
24. Click on  ‘Add Map’ option in the left bar and drag the cursor from the top left to the bottom right in the area provided.
25. Position the Map properly.
26. Now we need to add the title of the Map.
27. Click on  ‘Add Label’ option in the left bar.
28. Drag the cursor where you would like to add the title of the map.
29. In the ‘Item Properties’ tab on the bottom right type the title of the Map in the ‘Main Properties’ option.
30. Adjust its appearance by scrolling down in the ‘Item Properties’ tab.
31. Now we need to add the legend in the map.
32. Click on  ‘Add Legend’ option in the left bar.
33. Drag the cursor where you would like to add the legend of the map.
34. In the Item Properties Tab adjust its settings.
35. Now we have completed making the Map and we need to produce it to an image.
36. Click on ‘Layout’ option in the toolbar and click on ‘Export as Image...’
37. Select the folder where you want to save the Map and hit enter in the keyboard.
38. You have successfully made the Map!

Application and Use of this Map

1. This map can be used to identify corona virus zones in Maharashtra.
2. When a person wants to travel to Maharashtra, he can use this map to decide where he wants to go on the basis of the number of corona virus cases in the area.
3. This map can be used for making the preference of distribution of vaccine for corona virus in different districts of Maharashtra.