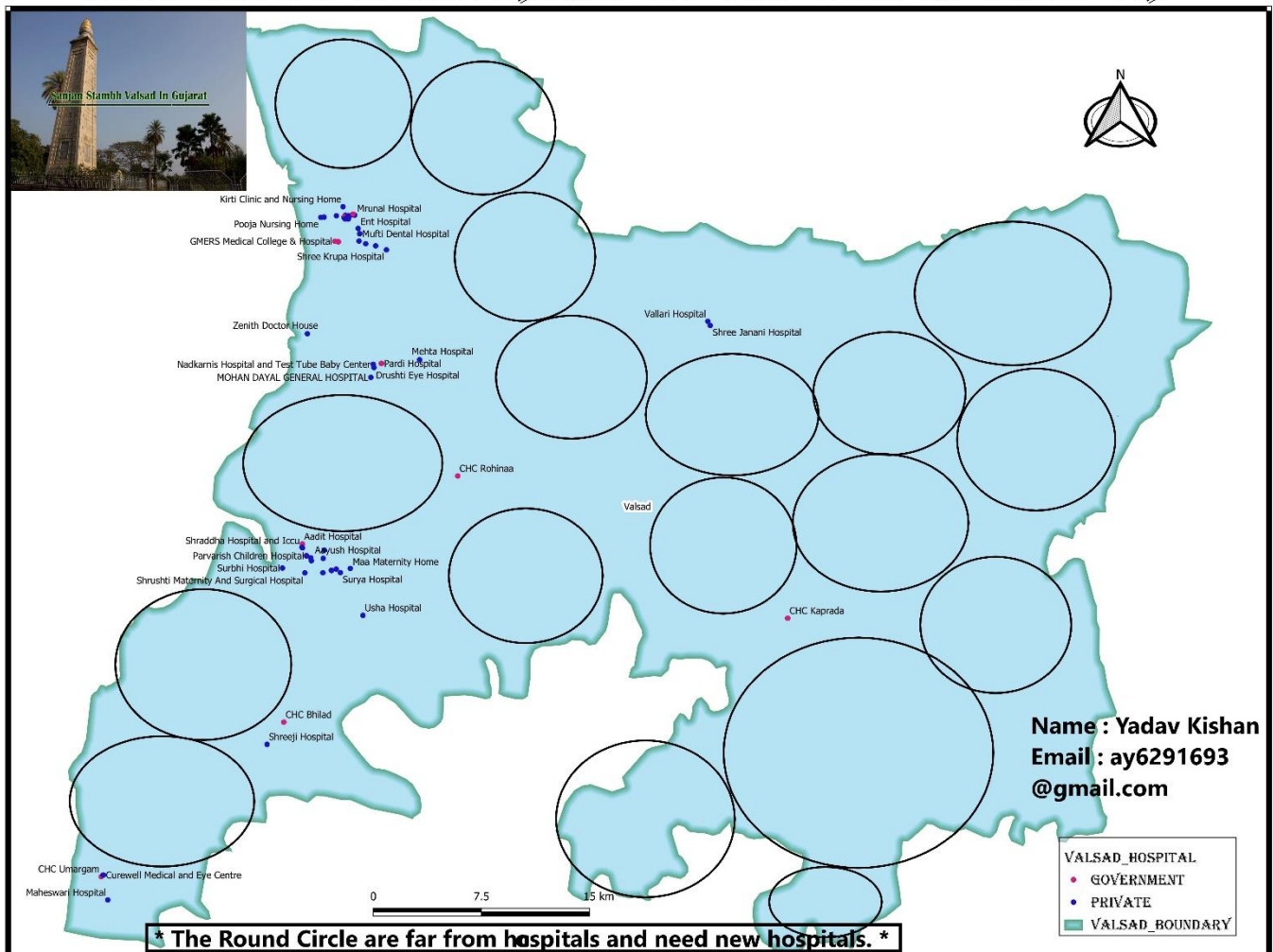# IIB-ISRO-AICTE MAPATHON-SUBMISSION

➔ **Problem Statement:-** State-wise Health Care Indicators Maps.

🔸 Topic:- Valsad District Health Center Map:

VALSAD DISTRICT HEALTH CENTER

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Kirti Clinic and Nursing Home
Mrunal Hospital
Pooja Nursing Home
Ent Hospital
Mufti Dental Hospital
GMERS Medical College & Hospital
Shree Krupa Hospital

Zenith Doctor House

Mehta Hospital
Nadkarnis Hospital and Test Tube Baby Centers — Pardi Hospital
MOHAN DAYAL GENERAL HOSPITAL — Drushti Eye Hospital

Vallari Hospital
Shree Janani Hospital

CHC Rohinaa

Valsad

Shraddha Hospital and Iccu — Aadit Hospital
Parvarish Children Hospital — Aayush Hospital
Surbhi Hospital — Maa Maternity Home
Shrushti Maternity And Surgical Hospital — Surya Hospital

Usha Hospital

CHC Kaprada

CHC Bhilad
Shreeji Hospital

CHC Umargam — Curewell Medical and Eye Centre
Maheswari Hospital

0   7.5   15 km

VALSAD_HOSPITAL
• GOVERNMENT
• PRIVATE
▧ VALSAD_BOUNDARY

* The Round Circle are far from hospitals and need new hospitals. *

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ISRO Data Used:-

1) India District shapefile:
   Link: https://static.fossee.in/mapathon/Mapathon2020_Data/

2) Hospitals Data:
   Link: https://data.gov.in/

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Steps in GIS:

```
                    ┌─────────────────────┐
                    │        Start        │
                    └─────────────────────┘
                              ┆
                    ┌─────────────────────┐
                    │ Open the Qgis software │
                    └─────────────────────┘
                              ┆
                    ┌─────────────────────┐
                    │  Create a new shape file │
                    └─────────────────────┘
                              ┆
          ┌─────────────────────────────────────────┐
          │ Select the district shape from Indian District Shapefile │
          └─────────────────────────────────────────┘
                              ┆
                    ┌─────────────────────────────────┐
                    │ Prepared the Hospital Data for the District │
                    └─────────────────────────────────┘
                              ┆
                    ┌─────────────────────────────────┐
                    │  Add the Data to the Qgis Environment │
                    └─────────────────────────────────┘
                              ┆
                    ┌─────────────────────────────────┐
                    │  Add the legend, scale and north arrow │
                    └─────────────────────────────────┘
                              ┆
                    ┌─────────────────────┐
                    │         End         │
                    └─────────────────────┘
```

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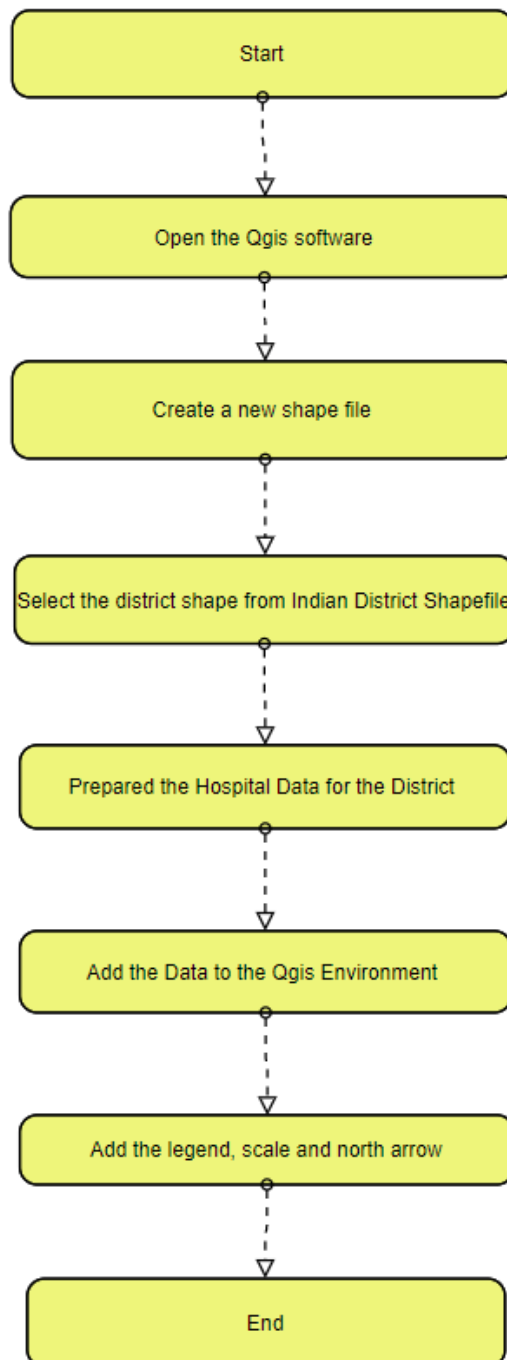
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Complexity:

1) Hospital Data collection and checking with its correctness is little bit complex.
2) I didn't get much data of the Indian Hospitals from ISRO.
3) In my QGIS, I was facing some problems like creating the buffer around the point in the map.

Application of Map:

           The Map shown above is the Valsad District Health Center Map. This maps represent the Private and Government Hospitals available in the Valsad. In this map, I use the shapefile provided from the ISRO and the freely available hospitals data from data.gov.in .

           In this map, I have shown the black circle. This black circle shows that those areas are not covered by any Healthcare Center. Using this map, we can say, that people of those area need to travel to a long distance in case of Emergency for the hospitals.

           This map helps to the people of Valsad District to find the nearest hospitals in Emergency. It is also helpful for the District Collector Office of Valsad to use this map and build the new healthcare center in the area. This will increase growth of my Valsad District.

Thank You,

Yadav Kishan. (Email : ay6291693@gmail.com)

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