

Mapbox API

Manjara River Line

- Started using Mapbox
- Studied commands
- Hosted website with database
- Created basic dashboard view to observe river line
- Used Javascript APIs to create maps and views

Manjara River Line



Area Measurement View

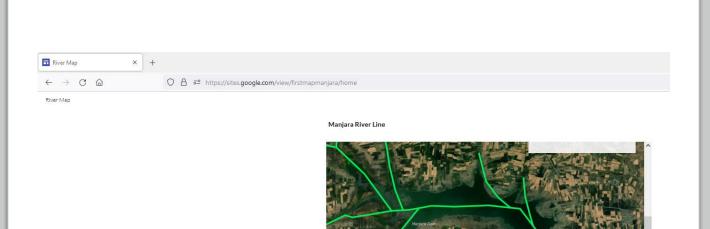
- Mapped sample agricultural land in the Manjara River Basin
- Create an area measurement view for mapped agricultural land

Measuring Tool Sample



Website

- https://sites.google.com/vie w/firstmapmanjara/home
- Created website and added both the view for testing
- Publish website



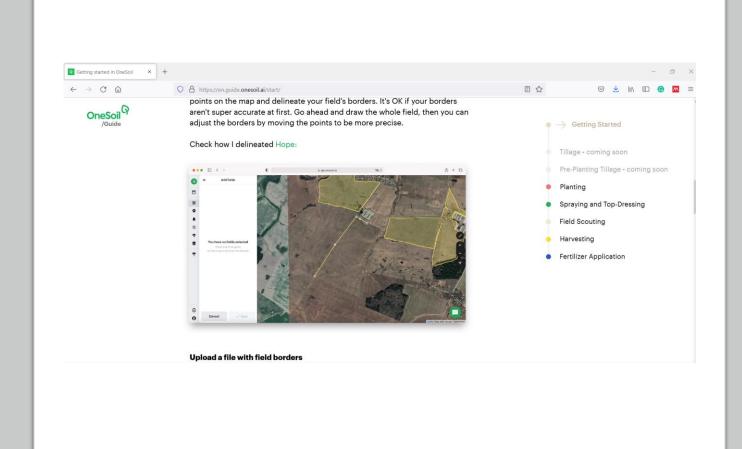
Measuring Tool Sample



Study of Current Dashboards

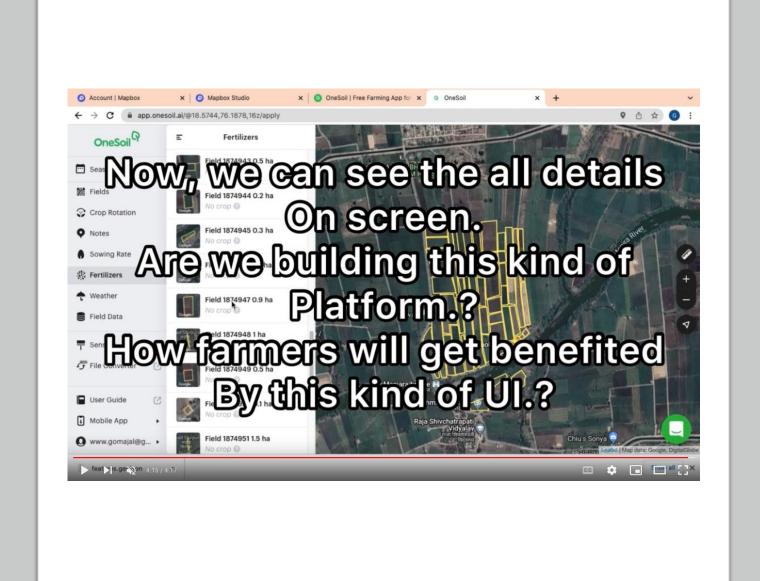
Onesoil

- Searched for AI and ML platforms used for agricultural mapping
- Found Onesoil made using mapbox



Onesoil

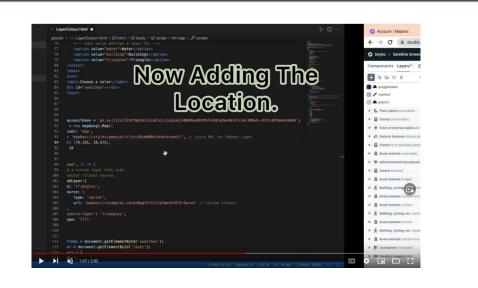
- Studies the onesoil platform
- Tried onesoil for manjara river agi land data
- Created Explanation Video
- https://www.youtube.com/w atch?v=U16JeevDU3g

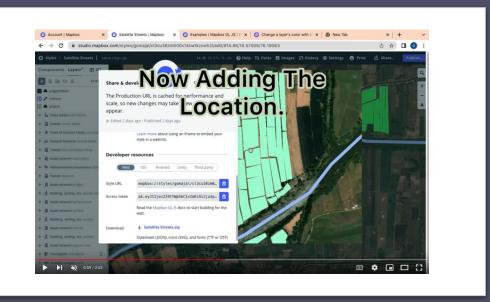


Dashboarding Function

The Polygons Colour Change Problem.

- Worked on changing colors of agri polygons based on status
- Did multiple itteraions with Javascript code
- Created Video of the work https://www.youtube.com/watch?v=qlzdiHu
 6LJI&t=2s
- Sample Code on Github -<u>https://github.com/NiteshSabne/gomajalriverline</u>

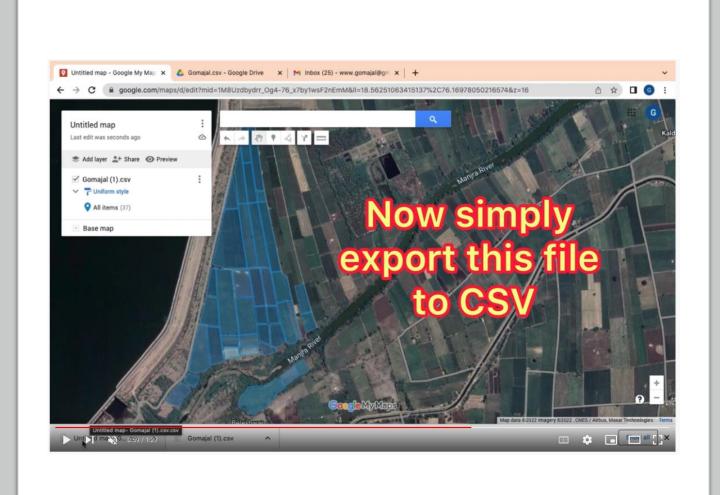




Mapping Activity Management

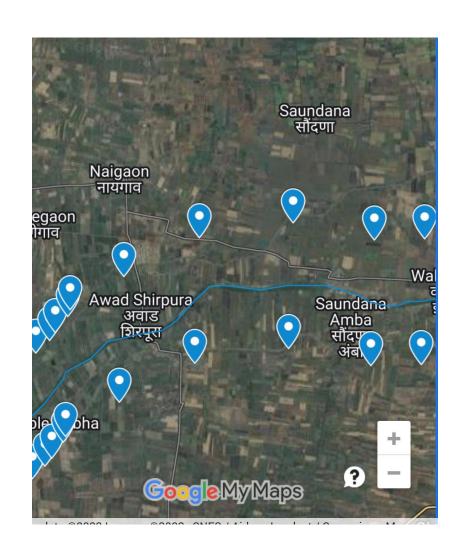
Managing Coordinating Agri Polygon Drawing Work

- Created mechanism to handle polygon drawing by multiple people
- Video https://www.youtube.com/w
 atch?v=FHgSt49WCdk



River line 1 Km on both sides of river

Written code to automatically draw river line 1 km on both side of center line



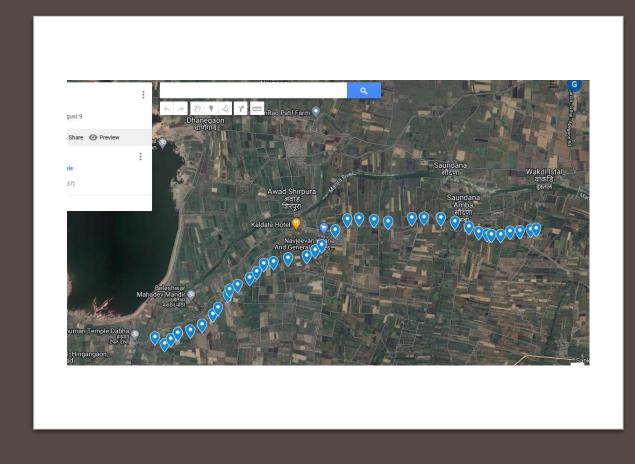
River line 1 Km on both sides of river

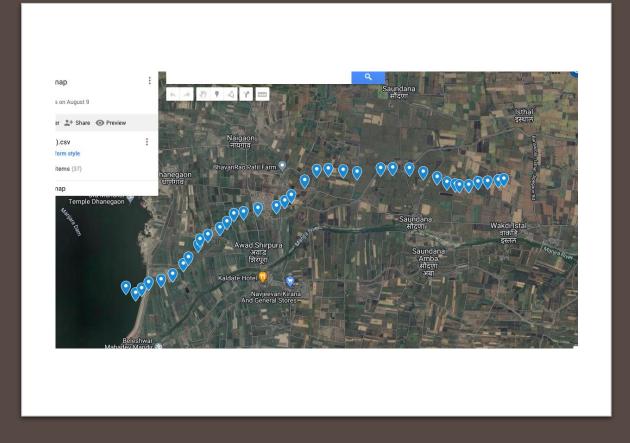
 Arranged Python code that import excel and output csv code that can be imported in the google earth and mymaps

```
pandas as pd
df = pd.read excel("dummy5.xlsx", usecols=['Longi','Lati'])
   index, row in df.iterrows():
   NewLati = Lati - 0.0090232
   temptext2 = f"point{x}"
                                                                              script_sub_1.py 1 KB ⊻ 〈〉
```

```
df = pd.DataFrame()
df1 = pd.DataFrame()
    Longi = row['Longi']
Lati = row['Lati']
    print(Longi)
print(Lati)
    temptext2 = f"point{x}"
    print(temptext)
TempDict = {"WKT": temptext, "name": temptext2}
    print(TempDict)
    df1 = df1.append(TempDict, ignore_index=True)
                                                                                               script_add.py 1 KB 👤 🔇
```

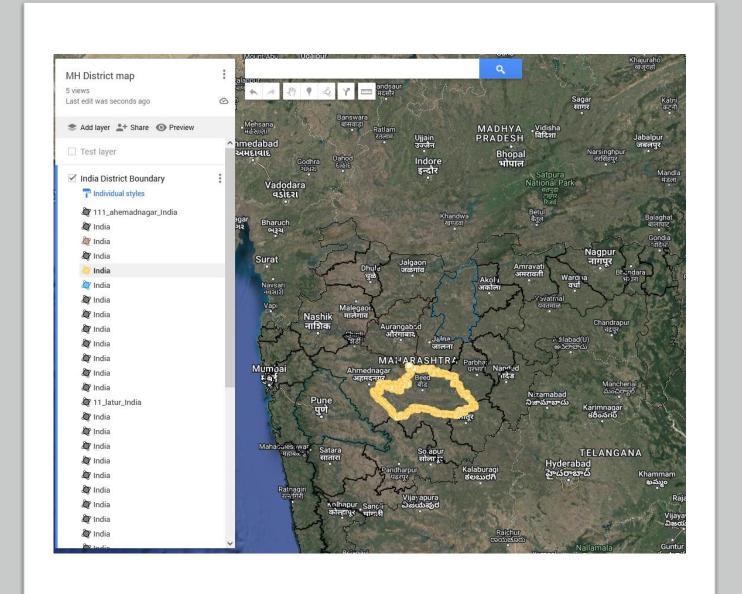
River line 1 Km on both sides of river





Managing and Coordinating District Mapping

- Created District Boundary maps of districts using opensource data
- Separated data for students mapping activities
- Created district data of states such as Maharashtra, Tamil Nadu, Telangana and Uttar Pradesh



Managing and Coordinating District Mapping

 Continuing District Map Extraction

