**Omdena VIT Bhopal Water Quality Monitoring**

**Resources to learn Data Extraction:**

* **Kutch Project Data collection -** [Data Collection Notebook](https://github.com/OmdenaAI/omdena-kutch-India-water-qality-monitoring-/blob/main/src/tasks/task04-satellite-image-analysis/Data%20Collection.ipynb)
* **How to make polygon -**   
  <https://www.youtube.com/watch?v=bnZP41yL-iI>

[Water Quality Monitoring using Remote sensing in Google Earth Engine || Water Quality analysis](https://www.youtube.com/watch?v=DLxHS9BgadE)

* **Detailed GEE courses -**

<https://www.youtube.com/playlist?list=PLyJZ14_CYRrC9IElaGRBFKOG7fpH61wVh>

<https://www.youtube.com/playlist?list=PLmk0fUBXB9t2_vIGvKtwPpzrtd3Na-_k8>

* **Kutch Project article -**

<https://omdena.com/blog/satellite-imagery-for-water-quality-monitoring/>

1. Google Earth Engine - Python API: [Google Earth Engine - Python API - YouTube](https://www.youtube.com/playlist?list=PLyJZ14_CYRrC9IElaGRBFKOG7fpH61wVh)

2. Google Earth Engine Full Course:

[Google Earth Engine Full Course Recorded Video Class Beginners to advanced - YouTube](https://www.youtube.com/playlist?list=PLmk0fUBXB9t2_vIGvKtwPpzrtd3Na-_k8)

3. Google Earth Non-Code Platform:

[Earth Blox](https://www.earthblox.io/)

[Geo for Good 2022: Earth Engine for Non-coders](https://www.youtube.com/watch?v=HofrUehuEk4)

4. Intro to Machine Learning and Earth Engine:

[Geo for Good 2022: Intro to Machine Learning and Earth Engine](https://www.youtube.com/watch?v=WvaBZbph_cU&t=7s)

5. Water Quality Monitoring using Remote Sensing in Google Earth Engine:

[Water Quality Monitoring using Remote sensing in Google Earth Engine || Water Quality analysis](https://www.youtube.com/watch?v=DLxHS9BgadE)

6. Earth Engine Data Catalog

[Sentinel Collections - Earth Engine Data Catalog](https://developers.google.com/earth-engine/datasets/catalog/sentinel)

[Water Occurrence (1984-2015) | Google Earth Engine](https://developers.google.com/earth-engine/tutorials/tutorial_global_surface_water_02)

7. Google Earth Engine for Water Resources Management

[Google Earth Engine for Water Resources Management (Webinar)](https://www.youtube.com/watch?v=PjDUjBOnNtA)

**Omdena Kutch India Water Quality Monitoring:**

[Applying Satellite Imagery for Water Quality Monitoring in Kutch Region](https://omdena.com/blog/satellite-imagery-for-water-quality-monitoring/)

<https://github.com/OmdenaAI/omdena-kutch-India-water-qality-monitoring->

**Google Earth Engine:**

<https://earthengine.google.com/>

<https://code.earthengine.google.com/>