**Water Management**

**1 - Raising awareness**

* **1.1 Water Portability Prediction :** [**https://www.kaggle.com/datasets/gauravduttakiit/water-potability-prediction**](https://www.kaggle.com/datasets/gauravduttakiit/water-potability-prediction)

**1.2** [**https://www.youtube.com/watch?v=qg\_ZEo\_Kz3g**](https://www.youtube.com/watch?v=qg_ZEo_Kz3g)

**1.3** [**https://www.youtube.com/watch?v=zi1b\_tuzqNM**](https://www.youtube.com/watch?v=zi1b_tuzqNM)

**4.4** [**https://www.youtube.com/watch?v=MytUqOz5vbY**](https://www.youtube.com/watch?v=MytUqOz5vbY)

**2.1 Water level prediction :**

**2.2** [**https://www.kaggle.com/datasets/lbronchal/venezia/code**](https://www.kaggle.com/datasets/lbronchal/venezia/code)

**2.2** [**https://www.youtube.com/watch?v=fNXRWxb4Ffs**](https://www.youtube.com/watch?v=fNXRWxb4Ffs)

* **4.2 Water treatment :** [**https://www.kaggle.com/datasets/yaxin153537/water-treatment**](https://www.kaggle.com/datasets/yaxin153537/water-treatment)
* **4.2 instructions**
* **4.3 News**

**2 - Water leaks Detection:**

* **2.1** [**https://www.minew.com/product/msl01-wireless-water-leak-sensor/?gclid=EAIaIQobChMI0rPBo5jfgAMViZDVCh0IBgXOEAAYASAAEgLed\_D\_BwE**](https://www.minew.com/product/msl01-wireless-water-leak-sensor/?gclid=EAIaIQobChMI0rPBo5jfgAMViZDVCh0IBgXOEAAYASAAEgLed_D_BwE)
* **2.2** [**https://www.kaggle.com/datasets/kokoibrahim/leak-detection**](https://www.kaggle.com/datasets/kokoibrahim/leak-detection)
* **2.3** [**https://www.mdpi.com/2624-831X/1/2/26**](https://www.mdpi.com/2624-831X/1/2/26)

**3 – Predict Water Consumption :** [**https://data.mendeley.com/datasets/2yjwrft6nr/1**](https://data.mendeley.com/datasets/2yjwrft6nr/1)

**Models :**

* Build Deep neural network model
* Build Conv neural network model
* Build RNN , LSTM , GRU models

**For Models Evaluation**

* Using confusion matrix
* Area under the curve
* Graph for loss and accuracy
* Precision , Recall , F1 Score from Classification Report