

Title: Smart Water Management in Gardening and Agriculture .

Idea:

Statement of Problem:

- 1) Soil Moisture Data Acquisition
- 2) Data Processing and Analysis
- 3) Predictive Modeling
- 4) Irrigation Control

In short, regulating water in the irrigation process for optimal growth and water conservation.

Objective:

Develop a cost-effective smart irrigation system without relying on a local weather station.

Technology gap :

1. Lack of data
2. Error in data collection:

Dataset:

Data collection is currently underway.

Midway:

A prediction system will be created using synthetic or actual recorded data.

Baseline:

After training, the system will be tested in uncontrolled environments, and results will be evaluated.

Work Division:

- Subhra will handle data collection and plant maintenance.
- Experiment design and data analysis will be primarily undertaken by Anuleho.

Related Paper: List of the related papers have been provided in the following link:

<https://docs.google.com/document/d/11HrvSNhkY8lHAmIRH0ITD3C-CmmsmT2SBgsg0gvXte0/edit?usp=sharing>