**Project Description**

This document is created as part of my GreenSkill & AI Internship (Week 1).  
The project theme is Water Resource Management, focusing on leveraging AI/ML/AIoT technologies to monitor, analyze, and optimize the use and distribution of water resources.

**Project Overview**

Water is a critical resource for life, agriculture, industry, and ecosystems. With increasing demand, climate variability, and pollution, effective water resource management has become essential. This project explores how Artificial Intelligence (AI), Machine Learning (ML), and Artificial Internet of Things (AIoT) can play a transformative role in:  
  
- Enabling predictive analytics for water usage  
- Supporting intelligent decision-making  
- Enhancing conservation and sustainability efforts  
- Automating leak detection in water supply networks

**Objectives**

- Develop intelligent solutions to enhance water conservation  
- Detect leakages in water distribution networks  
- Support sustainable management practices  
- Use predictive analytics & automation for efficient resource utilization

**Technical Domains**

AI / ML  
AIoT