

Project Design Phase-I

Proposed Solution Template

Date	17 October 2022
Team ID	PNT2022TMID05431
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.NO.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Water is considered as a vital resource that affects various aspects of human health and lives. The quality of water is a major concern for people living in urban areas. The quality of water serves as a powerful environmental determinant and a foundation for the prevention and control of waterborne diseases. However, predicting the urban water quality is a challenging task since the water quality varies in urban spaces non-linearly and depends on multiple factors, such as meteorology, water usage patterns, and land uses, so this project aims at building a Machine Learning (ML) model to Predict Water Quality by considering all water quality standard indicators.
2.	Idea / Solution description	The solution is derived from the data sets by comparing the accuracy rate with previous data set and the current data set.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">➤ Can be determined whether the water can be recycled or reused.➤ User Friendly and Eco friendly.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">➤ Beneficial for people health.➤ By analysing the quality of water, good and healthy water is provided.

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ➤ First the application is tested with few people. ➤ Later on it comes into the picture where everyone can see by networking. ➤ By conducting various activities regarding the importance of quality of water.
6.	Scalability of the Solution	Helps in getting all required aspects of water.