

Project Design Phase-I

Date	30-09-2022
Team ID	PNT2022TMID39728
Project Name	Efficient Water Quality Analysis and Prediction Using Machine Learning
Maximum marks	2 Marks

Proposed Solution Template:

S.No	Parameters	Description
1.	Problem Statement	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. The water Quality is predicted using machine learning with high accuracy.
2.	Idea/Solution	To measure various chemical and physical properties of water like pH, temperature and particle density of water, Conductivity, Fecal Coliform, Total Coliform using the dataset.
3.	Novelty	There is no any physical sensors where used the prediction is done only by dataset using Machine Learning.
4.	Social Impact	The economic consequences of differing water quality standards. Cost effectiveness, cost benefit analysis, economics and ease of use.
5.	Business Model	Water Quality Index Modelling involves Water Quality based data Mathematical simulation techniques for assessing the water quality that can be efficient to use or not.
6.	Scalability of the Solution	High Scalability, High Accuracy, and Highest Prediction values with a provided dataset.