Project Design Phase-I Proposed Solution Template

Date	15 October 2022
Team ID	PNT2022TMID37191
Project Name	Project – Efficient Water Quality
	Analysis & Prediction Using
	Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Water quality prediction using linear regression in machine learning techniques. In this technique, our model predicts that the water contaminants or using some parameters like Ph value, conductivity, hardness, etc,.
2.	Idea / Solution description	 Water Quality Index (WQI) assessment is required for the purpose of public health. An effective linear regression model is developed to predict the WQI based on the parameters like temperature, dissolved oxygen, pH value, Turbidity, Nitrates and faecal coliform.
3.	Novelty / Uniqueness	In this prediction,the main uniqueness is that using
		linear regression

4.	Social Impact / Customer Satisfaction	 One of the important factors leading to poverty is shortage of water resource. The shortage of water resource can lead to poor land productivity, low production level and low income level, and can also lead to drinking water shortage and poor life quality.
5.	Business Model (Revenue Model)	• For Analysing the metrics of each water resource a charge will be collected.
6.	Scalability of the Solution	The result gives more accuracy of the water quality analysis by using linear regression.