PROJECT DESIGN PHASE 1

Efficient water analysis using machine learning

| s.no | Parameter | review |
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| 1 | Problem statement | Efficient water analysis using machine learning |
| 2 | idea | 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. This project aims at building a Machine Learning (ML) model to Predict Water Quality by considering all water quality standard indicators. |
| 3 | novelty | One of the biggest advantages of using deep learning approach is **its ability to execute feature engineering by itself**. In this approach, an algorithm scans the data to identify features which correlate and |

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| | | then combine them to promote faster learning without being told to do so explicitly. |
| 4 | Social impact | ML **helps to predict demand better and can be cutting-edge technology for supply change management**. It helps in accurate market segregation and plans marketing strategies accordingly this surely improves ROI on marketing budget |
| 5 | Machine learning | **the capability of a machine to imitate intelligent human behavior**. Artificial intelligence systems are used to perform complex tasks in a way that is similar to how humans solve problems. |
| 6 | Scalability of solution | The latest machine learning approach has shown promising **predictive accuracy** for water quality. |