

| S.NO | AUTHOR NAME            | PAPER                                                                                         | THEME                                    | AREA OF ESTIMATION                                                                                                                                      | ALGORITHM                          | RESULTS                                                                       |
|------|------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------|
| 01   | Geetha.Gouthami et al. | Internet of Things Enabled Real Time Water Quality Monitoring System,2017.                    | Water Quality Monitoring                 | Test water samples and upload data on internet for analysis.                                                                                            | None                               | NA                                                                            |
| 02   | Ahmed et al.           | Efficient Water Quality Prediction Using Supervised Machine Learning,2019.                    | Water quality levels                     | Use of machine learning algorithms to estimate water quality index                                                                                      | Gradient Boost Algorithm           | Make a base for an economical ongoing water quality recognition framework.    |
| 03   | Ashwini et al          | “Intelligent Model For Predicting Water Quality”                                              | Water quality checks                     | Plan and foster a minimal expense framework for the ongoing observing of water quality utilizing the Internet of Things (IoT) and Machine Learning (ML) | K-Nearest Neighbour                | It deliver a practical and economical solution without any human intervention |
| 04   | Prasad et al           | “Smart Water Quality Monitoring System”, 2015                                                 | Water quality monitoring system          | Upload water quality data onto the internet using IoT, and wireless sensors                                                                             | None                               | Successfully send the alarm based on the parameter for immediate action.      |
| 05   | Mohammed et al.        | “Machine Learning: Based Detection of Water Contamination in Water Distribution systems”,2018 | Water contamination                      | Detection of water contamination using machine learning model                                                                                           | None                               | NA                                                                            |
| 06   | Singh et al.           | Review on Data Mining Techniques for Prediction of Water Quality,2017                         | Water quality prediction and data mining | Studying various data mining techniques for prediction of water quality                                                                                 | Naïve Bayes, Back Propagation, KNN | NA                                                                            |

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| 07 | Kumar et al.                    | Smart Water Monitoring System for Real-Time Water Quality and Usage Monitoring,2018                                                                                                       | Smart Water Quantity meter and Smart Water Quality meter | Configuration Smart Water Quantity Meter to guarantee water protection by observing how much water drank by a family, and informing something very similar to the shopper and the power | None                     | Implement quality check meter which improve the predict rate and reduce the error.                             |
| 08 | Koditala et al.                 | Water Quality Monitoring System using IoT and Machine Learning, in Proceedings of the IEEE International Conference on Research in Intelligent and Computing in Engineering, pp.1-5, 2018 | Water quality monitoring                                 | Use of emerging technologies like IoT, machine learning and cloud computing to replace traditional water quality monitoring techniques                                                  | None (but designed some) | Used several sensor to determine the quality of the water which are inexpensive giving a inexpensive solution. |
| 09 | <a href="#">Haghiabi</a> et al. | Water quality prediction using machine learning methods, 2018                                                                                                                             | Water quality monitoring                                 | Examine execution of artificial intelligence strategiesrememberin g artificial neural network for anticipating water quality parts                                                      | Firefly Algorithm        | NA                                                                                                             |
| 10 | Gollapalli et al.               | Ensemble Machine Learning Model to Predict the Waterborne Syndrome, 2022                                                                                                                  | Maintain hygienic access to clean water                  | Use of machine learning model extract data on hygienic conditions and water quality                                                                                                     | Naïve Bayes              | Address the challenges associated with waterborne disease in low income nation.                                |