

Ideation Phase

Literature Survey

Date	01-10-2022
Team ID	PNT2022TMID46440
Project Name	Project – Efficient Water Quality Analysis and Prediction using Machine Learning.
Maximum Marks	4 Marks

Author	Title	Year	Source	Findings	Advantages	Disadvantages
[1] Yafra Khan, Chai Soo See, Min, Zeilhofer, Farrell-Poe, Cernadas, Barro, Amorim	Predicting and analyzing water quality using Machine Learning	2016	International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT).	Artificial Neural Networks, Time Series Analysis, Mean Square Error Methods, Predictive models.	Most significantly utilized to predict the water in order to avoid filthiest.	The Quality of water might not be accurate sometimes.
[2] Rongli Gai, Jiahui Yang, Nikhil M Ragi, Ravishankar Holla, Manju, Pedregosa, Varoquaux, Gramfort, Michel	Predicting water quality parameters using machine learning	2019	International Conference on Digital Information Management (ICDIM).	Chemical methods, Predicting chloride, neural nets, Biological neural networks, Classification algorithms.	With the assist of, Water Quality Prediction technique, could be ignored impecuniou s people death for the reason of, utilizing corporation water.	If foretelling the water using chemical methods in pure natural water like, Filtered Rain Water then, it would cause some menacing
[3] Kathleen Joslyn, John Lipor, Basak,	A Supervised Learning Approach to	2018	IEEE International Conference on	Sensors, Q-factors, Support Vector	A Supervised Learning	It has many algorithms to detect the best

Pal, Patranabis, Chen, Guestrin	Water Quality Parameter Prediction and Fault Detection		Big Data (Big Data).	Machines, Regression Analysis, Gradient boosting, Dissolved Oxygen, Turbidity	approach could be measured accurately to detect the quality of the water.	quality of the water. Not only depends on Supervised Learning approach.
[4] Jitha Nair, Vijaya, Tirabassi, Liao, Ahmed, Mumtaz, Anwar, Irfan, Garcia-Nieto,Shah.	Predictive Models for River Water Quality using Machine Learning and Big Data Techniques .	2021	International Conference on Artificial Intelligence and Smart Systems (ICAIS).	Big Data, Remote Sensing, Data analysis, Deep learning, Environmental Science Computing, Predictive Models.	It is more crucial, that foretelling the river water using machine learning and big data techniques to defend the diseases.	Prediction must be meticulous in order to ignore bad reports about the water.
[5] MalarKodi, Tarakeswari, Jobin Tomy, Ashton, Joubert, Benyamina, Gamatie, Mahadeo, Mehmood.	A Deep Learning Strategy For Water Quality Monitoring..	2020	International Conference on Secure Cyber Computing and Communications (ICSCCC)	Internet Of Things, Existing Water Quality Forecasting Techniques, LSTM, Total Dissolved Solids.	With the assist of, monitoring the water quality, it would be so effortless to ignore diseases.	Monitoring simultaneoulsy might be arduous.