OBJECTIVE

The objective of our project is to predict a water quality level.A water quality prediction was generated for predictin g if the water is safe to drink or not.Water quality has a direct impact on public health and the environment. Water is utilized for a variety of purposes, including drinking, agriculture, and industrial use.

Recently, development of water sports and entertainment has greatly helped to attract tourists. . The water quality in dex (WQI) is a critical indication for proper water management. The purpose of this work was to use machine learni ng techniques such as RF, NN, MLR, SVM, and BTM to categorize a dataset of water quality in various places acros s India. Water quality is dictated by features such as dissolved oxygen (DO), total coliform (TC), biological oxygen demand (BOD), Nitrate, pH, and electric conductivity (EC). . This experiment was also conducted to compare the m achine learning model performance between Decision Tree, Random Forest, XGBoost, and Logistic Regression to d etermine the most suitable technique for predicting Water Quality.