

# Efficient Water Quality Analysis and Prediction using Machine Learning

## EMAPATHY MAP

SAYS	DOES
<ul style="list-style-type: none"><li>• This predicts the water is safe to drink or not using some parameters like ph value, hardness, conductivity etc..</li><li>• Access to safe drinking water is essential to health and a component of effective policy of health.</li></ul>	<ul style="list-style-type: none"><li>• Data preprocessing-Data exploration is done and then the outlier detection using box plot analysis.</li><li>• Methodology-Correlation analysis and feature selection and then data split is done for cross validation.</li><li>• Regression model is for WQI prediction and classification model is for WQC prediction.</li><li>• Evaluation- Two types of evaluation is done regression and classification evaluation.</li></ul>
THINKS	FEELS
<ul style="list-style-type: none"><li>• Why to analyse the water quality?</li><li>• Is it possible to predict water with machines?</li></ul>	<ul style="list-style-type: none"><li>• Interprets in real time for navigating and manipulation of images in a database.</li><li>• Calculated using various parameters that are truly reflective of the water's quality.</li></ul>