

# **EFFICIENT WATER QUALITY ANALYSIS AND PREDICTION USING MACHINE LEARNING**

## **PROBLEM STATEMENT**

Water is the most important of sources, vital for sustaining all kinds of life; however, it is in constant threat of pollution by life itself. Rapid industrialization has consequently led to the deterioration of water quality at an alarming rate. Poor water quality results have been known to be one of the major factors of escalation of harrowing diseases.

Water quality is currently estimated through expensive and time consuming lab which require sample collection, transport these samples to the lab collected from one of the water sources and it takes a considerable amount of time for the calculation of results, which is quite ineffective if the water is polluted with waste that causes diseases.

The main motivation is to propose and evaluate an alternative method based on **MACHINE LEARNING** for the efficient analysis and prediction of water quality in real time.