

NALAYATHIRAN

TEAM NAME : Team Elite

PROBLEM STATEMENT

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Efficient Water Quality Analysis and Prediction Using Machine Learning

1. Water makes up about 70% of the earth's surface and it is one of the most important sources on earth; it plays a vital role to sustain life.
2. Water quality has been conventionally estimated through expensive and time-consuming lab and statistical analysis.
3. With this motivation, we explore a series of supervised machine learning algorithms to estimate the water quality.

Idea Prioritization

Big Idea

Temperature suited with 52-70 degree is healthy.

Biosensor method to detect the bacteria and virus.

Hardness is measured caused by calcium and magnesium

ph level of 7 is consider as pure water.

Dissolved oxygen meter can measure the concentraton.

Using ppm amount of minerals and gasses dissolved is purifies

Turbidity measurement using nephelometer

Memberance Filtration to remove the impurities

Total dissolved solids of 75 to 90 is ideal for drinking

Color of water decayed from organic matter.

Quality analysis by taste.

Water level sensor to remove impurities

Team Lead:*Puttu Bharath Kumar*

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Team Members

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