

PROBLEM STATEMENTS...

PROBLEM

How might we determine the quality of the water?

PROBLEM

How might we choose the best algorithm for used water quality prediction?

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How might we choose the best water that are effcient for drinking in the current location?

PROBLEM

How might we choose the various factors or variables?

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simple property that tells whether to determine water is polluted or not.

To determine water quality, measure and analyze the water characteristics

To determine temperature of the particular water

To determine dissolved mineral content in the particular water

To determine number of bacteria in the particular water

To determine Alkalinity and color of the particular water

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To determine Potential of Hydrogen and Taste and odor of the water

To determine Dissolved metals and salts (sodium, chloride, potassium, calcium, manganese, magnesium)

To determine Dissolved metals and metalloids (lead, mercury, arsenic, etc.)in the water

To determine the Specific conductance or electrical conductance (EC) or conductivity in the water

To determine the Total suspended solids (TSS) in the water

To measure water transparency or turbidity in bodies of water

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complexity of water quality as a subject is reflected in the many types of measurements of water quality indicators

physical or chemical testing can be done by several methods, depending on the accuracy needed and the characteristics of the contaminant.

simplest methods of chemical analysis are those measuring chemical elements without respect to their form

Alkalinity is measured by titrating the solution with an acid such as HCl until its pH changes abruptly, or it reaches a known endpoint where that happens

Relatively small quantities of water appear to be colorless, pure water has a slight turquoise color

To determine the quality of water, including Secchi disks (measure water clarity), probes, nets, gauges and meters

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water quality refers to the chemical, biological and physical characteristics of water as per the standard of requirements for its use.

most commonly quality check is run for human consumption as potable water

To check the quality multiple chemical tests are run on the sample of water to examine several indicators of water quality

These indicators check the health of water, degree of pollution, fitness for human consumption

The indicators of water quality are temperature, dissolved oxygen, pH, total dissolved solids, sediments, nutrients, metals, industrial chemicals, hydrocarbons

To perform a test for water.Some tests are: Bacteria testing (for E. coli bacteria), Mineral testing, pH testing, etc.