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TEAM ID	PNT2022TMID45992
PROJECT TITLE	Efficient Water Quality Analysis and Prediction using Machine Learning
TEAM LEAD	Santhosh.A
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PROBLEM AND STATEMENT:

Problem: One in nine people worldwide uses drinking water from unimproved and unsafe sources. 2.4 billion people live without any form of sanitation.

I. Water is one of the most essential for the existence of life. The safety and accessibility of drinking-water are major concerns throughout the globe.

II. Water makes up about 70% of the surface and is one of the most important sources vital to sustaining life.

III. Water quality has been conventionally estimated through expensive and time consuming lab and statical analysis.

IV. This system is proposed to check the water quality and warn the user before water gets contaminated using Machine Learning



**Temperature
suited with 52-70
degree is healthy**

**Biosensor
method to
detect the
bacteria and
virus**

**Hardness is
measured
caused by
calcium
& magnesium**

**Ph level of 7
is consider
as pure
water**

**Memberance
filtration to
remove the
impurities**

**Dissolved oxygen
meter can measure
the concentration**

Using ppm

**Turbidity
measurement
using
ount of**

Color of water decayed from organic matter

IDEA u

**Temperature
suited with
70 degree
healthy**

**Using ppm
amount of
minerals**

**Biosensor method to detect the
bacteria and method**

**Membrane
filtration
removal
impurities**

**Color of water
decayed from
organic matter**

**Quality
analysis
taste**

**Hardness is
measured caused
by calcium
& magnesium**

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