Project title:

Efficient water quality analysis and prediction using machine learning

Team ID: PNT2022TMID28709 Project design phase 1: Solution fit

Customer segment(s)

Industry analyst

General public

Drinking water analyst

Doctors

Researchers

Job to be done

To predict the constraints that are harmful for people and needs to be immediately detected and rectified, so as to avoid future health issues.

Triggers

It helps the public to have the knowledge about the purity level of the water they are using and hence will be able to tell the people whether the water they are using is fit for drinking and domestic purpose or not.

Emotions

Due to impure water people face bad health agriculture production goes low and many of them faces many health issues which affects that person as well as their family badly.

Customer constraints

Water resources that are available around you, chemical constraints of water, hardness and softness of water etc...

Available solutions

Predicting the pH by using pH paper, by using normal thermometer, using temperature sensor.

Behaviour

People will use this water purity analyzer to find the quality of water and check the quality constraints.

Solution

Taking into view various constraints of water we are going to evaluate the quality and purity level of water.

Problem root cause

There are several substances in the water that may be very harmful for our health, that may affect our agriculture and also our health. Hence it's important to check water quality before use.