Project Summary: Water Quality Detection Mobile App
By: S. Yaswanth Kumar, Class 8, ZPHS Pendurthi, Visakhapatnam

Hello everyone, my name is S. Yaswanth Kumar, and I am currently studying in 8th class at Zilla Parishad High School, Pendurthi, Visakhapatnam.

Water is one of the most essential resources for life, and drinking unsafe or poor-quality water can lead to serious health problems. To address this issue, we have developed a mobile application that can detect the quality of water and determine whether it is safe for drinking or not.

Project Objective:

To create a simple and accessible mobile app that uses key water quality parameters to assess whether the water is drinkable.

How It Works:

The app requires users to input specific parameters of the water sample:

pH Level – Measures how acidic or basic the water is.

Chlorine Content – Indicates the level of chlorine present.

Turbidity – Represents the clarity or cloudiness of water.

Using these inputs, the app analyzes the data and provides a result indicating whether the water is safe or unsafe for drinking. The app uses machine learning techniques and is trained on real-world water quality datasets collected from multiple sources to ensure accuracy.

Impact:

This app aims to help communities easily test and understand the quality of their drinking water, especially in areas where laboratory testing may not be readily available. It promotes health awareness and empowers people with technology to ensure safer living conditions.

Acknowledgment:

We sincerely thank Intel for giving us the opportunity to learn about technology, coding, and problem-solving through this project. It has been a great experience to develop something meaningful that can help society.