

AquaAlert

An IOT based Flood Detection

Abstract

Floods are deemed inevitable natural occurrences, resulting in substantial economic damage and a notable loss of human life. Researchers have ingeniously developed a flood level detecting device utilizing various sensors, particularly leveraging the capabilities of the ESP32. This proposed model not only serves as a valuable tool for anticipating impending calamities but also facilitates crucial preemptive actions by emergency and recovery experts. The Flood Detector System, integrated with the ESP32, stands out as one of the swiftest approaches to monitor flood levels. Furthermore, the Internet of Things (IoT) emerges as a pivotal technological trend, playing a significant role in monitoring both floods and human-made resources. Its application extends to predicting and detecting crucial events such as floods, contributing to proactive disaster management.