IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 3, June 2023

Weather Reporting System using IoT

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Abstract: The rapid advancement of the Internet of Things (IoT) technology has paved the way for innovative solutions in various domains, including weather monitoring and forecasting. This abstract presents an IoT-based weather reporting system designed to enhance the accuracy and efficiency of weather monitoring and forecasting processes. The proposed system leverages a network of interconnected sensors, data analytics, and cloud computing to collect, process, and analyze weather-related data in real-time. The weather reporting system consists of three main components: sensor nodes, a data processing and analytics module, and a user interface. Sensor nodes are deployed across geographically distributed locations to capture weather-related parameters such as temperature, humidity, wind speed, and precipitation. These sensor nodes are equipped with wireless communication capabilities to transmit the collected data to the centralized data processing module.

Keywords: Weather Reporting

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DOI: 10.48175/IJARSCT-11432

