

IoT Based Smart Crop Field Monitoring and Automation Irrigation System

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Abstract: Agriculture is critical to the agricultural country's development. In India, farming employs over 70% of the population and accounts for one-third of the country's GDP. Agriculture-related issues are constantly a hindrance to the country's progress. The only existing solution to the current problem is intelligent agriculture, which involves updating current agricultural processes. As a result, the project's goal is to use automation and IoT technology to make agriculture smarter. The concept of smart-e-farming was created to make farming easier. It is powered by electricity. It comes with a variety of sensors for testing soil parameters, including the following: Sensor for measuring temperature. Moisture in the soil, for example. The key benefit is that it has an autonomous operating covering that adjusts to the soil depth and temperature.

Keywords: Raspberry Pi, Internet of Things (IoT), DC Pump, Web application.

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