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AGRIBOT: AN INTERNET OF THINGS BASED FARBOT

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ABSTRACT

Agriculture has long been a major profession in countries like India, where two-thirds of the population relies on it for survival. The conventional agricultural system is mostly reliant on natural resources, which sometimes provide excellent results and sometimes result in losses. Furthermore, rising population, shrinking farmland, and natural disasters such as drought, unwelcome heavy rain, and storms exacerbate the problem. Various scientific breakthroughs, however, have altered agriculture and farming practices during the last several decades. Smart farming employs IoT, AI, and machine learning methods to maximize agricultural production. In this paper, an IoT-based technological platform for farming is presented. The suggested agricultural bot "Agribot" is fitted with a substantial sensor for monitoring environmental factors that are important to farming. The android application that comes with this bot displays data collected from all of the sensors as well as photos of the crop/veggies produced in the farm on a regular basis so that anybody can keep track of it from anywhere. It also does data analytics on sensor data to calculate watering intervals for a particular crop, which can be seen via an Android app.

KEYWORDS: *Data analysis, Farming Bot, IoT, Sensors, Smart Farming..*

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