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Patent Search

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Abstract:

IoT-based crop monitoring scheme using a smart device with machine learning methodology. The proposed invention is the Internet of Things (IoT) is the most considerable medium for all smart applications, in which it provides huge support to the agricultural industry in a fine manner. The proposed invention is intended to design the new machine learning-enabled Smart Internet of Things medium to support the agricultural field in a proper way. In the proposed invention an Intelligent Crop Monitoring Device (ICMD) is introduced to monitor the crops over the agricultural field in a 24x7 manner. This kind of monitoring device enhances the production and quality-of-service of agriculture and its related products. The data acquired from the agriculture fields are temperature, humidity, and soil moisture level, in which these records are passed to the server unit by an IoT module associated with the ICMD. The data available on the server can easily be monitored by the farmer from anywhere at any time. The learning model predicts the status of the crop in the field by means of analyzing the input acquired from the real-time testing input and report that to the respective farmer for taking appropriate action. This system is useful to the agricultural field and provides good support to farmers to monitor the crops over the agricultural field from the remote place even. By using the proposed scheme, the farmers can make accurate and efficient crop management decisions with the use of results obtained by using the Smart Device called ICMD.

Complete Specification

Claims:1. IoT based crop monitoring scheme using a smart device with machine learning methodology comprises of

DHT11 sensor;

Soil moisture sensor;

IoT module with the controller;

GPS and GSM module;

And Remote IoT server.

2. IoT-based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, comprises of a DHT11 sensor wherein the temperature and humidity of the specific crop fields.

3. IoT-based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, comprises of soil moisture sensor, wherein the soil moisture sensor is used to measure the moisture content of the soil in a particular crop field.

4. IoT based crop monitoring scheme using a smart device with machine learning methodology according to claim 1 includes an IoT module wherein IoT module

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