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Patent Search

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Abstract:

loT based smart farming system to predict crop and fertilizers based on various factors using machine Learning Algorithms ABSTRACT: Agriculture contributes signific economy. It is crucial to the maintenance of a flourishing ecosystem. A massive array of agricultural products is indispensable to virtually every aspect of human exist Farmers must find ways to adapt to shifting weather patterns while simultaneously satisfying the rising demand for more and higher-quality produce. To increase crc development, the cultivator must be aware of the prevailing weather conditions. This knowledge will enable the farmer to make the correct selection regarding the cr cultivate in light of the various environmental factors. Internet of Things (IoT)-based smart farming makes the entire agricultural system more efficient through real-time monitoring. It monitors a variety of factors including humidity, temperature, and soil, among others, and provides a completely transparent real-time observation. This implementing machine learning in agriculture is to increase both the quantity and quality of the commodities produced by this industry. The application of applicable to the collected data can aid in recommending an acceptable crop.

Complete Specification

Description: DESCRIPTIONS:

Agriculture contributes significantly to India's overall economy. For more than 70 percent of rural households, agriculture is the primary source of income. Agriculture vital part of the Indian economy, accounting for approximately 17% of the country's GDP and employing over 60% of the population. In recent decades, India's agric sector has experienced a remarkable expansion. However, it is concerning that so many Indian cultivators are committing suicide. Farmers cited, in descending ord importance, debt, the environment, low food prices, inadequate irrigation, higher agricultural costs, the use of chemical fertilisers, and crop failure as the reasons for suicides. Intuition and extraneous factors, such as generating quick profits, a dearth of information about market demand, overestimating a soil's capacity to suppose specific crop, etc., tend to cloud a farmer's decision regarding which crop to grow. The development of a system that can provide Indian farmers with predictive insignal them in making an informed decision regarding which crop to cultivate is an imperative task that must be completed immediately. Because of this, there is a grow demand for "smart farming," which is dependent on the Internet of Things (IoT). Internet of things technology has the potential to revolutionise not only human life also the entire planet. By analysing sensor data, agricultural processes become more transparent, allowing producers to gain invaluable insights into the performant their farms, greenhouses, and other facilities. The use of high-precision algorithms and farming aided by machine learning is a developing concept in the contempo world. This cutting-edge movement is fostering sustainable productivity development across the agriculture industry. This movement aims to increase both the qual and quality of manufactured goods. As a solution for smart management of crop cultivation using IoT and machine learning, we propose a system that can assist factors management by considering sensed parameters (temperature, humi

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