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Inclusion of Cloud, Blockchain and IoT Based Technologies in Agriculture Sector

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Abstract



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Agriculture System Based on IoT-WSN

India is a country of vast diversification in all respect, but the common fact among all this is that about 80% of our population depends on agriculture and its allied activities for their livelihood. As per a recent government report, more than 50% of unskilled workforces have been engaged in this sector and contribute to roughly 16-20% towards Gross Domestic Product, strengthening the national economy. Unfortunately, our agricultural practice has been following primitive practices and failed to adopt modern-day skills, which helps in good productivity and increases resilience and sustainability with socio-economic benefits. Indian farmer needs to be trained and better equipped to

IV. IoT-Based Secure and Energy Efficient Scheme for Precision Agriculture

V. Fog Computing

Investments (FDI) and MNCs in this sector. Hence the need of the hour is to introduce new agricultural education reforms, technology transfer and commercialization of trans disciplinary science and applied research at a high priority.

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This shall prove beneficial in minimizing the gap of professional expertise in the agro-market. Researchers and the scientific community have been making efforts in designing, developing and adopting new paradigm changes in agri-education in the country. The government of India has taken significant measures with immediate attention to revolutionizing the effectiveness of advanced training in flourishing agricultural infrastructure. The author has made a novel investigation to assess the present scenario, potential challenge, scope of progress, forthcoming possibilities and finally discussed next-generation technologies which can successively change the course conventional of education and literacy in agro-farming with the huge opportunity of employment generation through entrepreneurship.

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Contents

I. Introduction

Due to innovative land reform programs and government subsidy programs, India has seen and experienced large-scale growth in the agricultural sector since independence. The majority of Indian farmers have been adversely affected, while those who are uneducated or unskilled, as well as those who are unaware of social programs, have benefitted the least. The current educational environment lacks a collaborative learning platform, and as a result, it is unable to provide high-quality learning. In India, students are less interested in agricultural studies since they are not covered and given academic significance in traditional schooling. As a result, less passionate young minds pursue further education in agriculture and related disciplines. Furthermore, there are a disproportionately small number of government-run institutions or universities that provide higher education. Nowadays, fiber optics-based communications systems with cheap data rates have opened the way for large dynamic learners to profit from web-based learning material. Strong network connections throughout India may be useful for learning current agriculture techniques and developing an Agri-entrepreneurship framework utilizing next-generation technology. Agriculture has a major effect on the lives of all living things on the planet. The contemporary world's technological advancements have enabled the world's vast population to successfully satisfy their food needs. Food security is threatened by a variety of causes, including climate change, pollinator rejection, plant diseases, and so on. Agriculture contributes to the fulfillment of human and civilization's basic requirements by supplying food, clothes, housing, medicine, and leisure. As a result, farming is the most important business in the world. In line with India's census data Agriculture employs 66 percent of India's working population, compared to 2 to 3 percent in the United Kingdom and the United States, and 7 percent in France. As a result, the agricultural sector is inextricably linked to the growth of our nation. The necessary input is land for agricultural productivity. Temperature, humidity, precipitation, sub radiation, wind velocity, and other variables all affect crop productivity. The cultivation of inappropriate crops is one of the reasons behind the

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system would include information on various crops and recommend the farmer's crop that is appropriate for cultivation based on the geographical region and climates such as temperature, wetness, and humidity. Many creative cultivation procedures were employed to prevent loss and prolong the yield of the crop, such as the use of fertilizer, the development of higher farming equipment, new farming methods, and better crop varieties are the components that boost yields. By using information and communication technology as a platform to increase production and usage of farmland for a variety of non-periodic goods such as plant nursery and organic, a farmer's productivity and profitability may be improved. This has a direct impact on agricultural families' well-being. The suggested method was primarily created to recommend appropriate crop and plant monitoring grown within the area by taking into account different factors such as temperature, moisture, and humidity levels, as well as the idea of overcoming with a regular revenue. Designed specifically for farmers' soil research centers, where the soil is used as an input to retrieve soil characteristics using various sensors. We've suggested an Android application to make the interfaces more accessible and user-friendly for those who don't have a technological background. Agriculture's primary goal is to increase land supply while also protecting it from degradation and abuse. This suggested system would prefer the crop that is suitable for cultivation based on the geographical region, climate, and sensor data, as well as disease prediction and fertilizer recommendations for the prior utilizing the K means clustering method. Precision agriculture is the most important area that defines a country's agricultural supply chain.

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