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Patent Search

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Abstract:

Artificial Intelligence and IoT based Smart Plant Monitoring and Control System to avoid Plant diseases using Machine Learning and Deep Learning Algorithms Abstra Internet of Things is one of the most prominent ways for humans to communicate with one another. It can be utilised in numerous ways. The majority of farms conti difficulty obtaining the water their crops require. A lack of water can harm both the soil and the crops. A functional monitoring or control system could be instrument this issue. Approximately 75% of Indians are employed in agriculture. When agricultural output grows in India, India's GDP changes significantly. Pests and diseases ca harm to the leaves and stems of plants. Damage to plants diminishes the quantity and quality of agricultural profits. Among the most important components of plant in agriculture is maintaining healthy crop growth. Monitoring plant growth and disease detection by hand is time-consuming and labor-intensive. Plant problems can diagnosed using AI, IoT, ML, DL, as well as other cutting-edge AI/ML/ML/DL methods. In a significant number of instances, the affected leaves, stems, and fruits were c This study provides an algorithm for diagnosing plant ailments and prescribing appropriate treatments. Depending on the particulars of the issue, an automated prot be able to correctly handle the plants

Complete Specification

Description:DESCRIPTIONS:

As a result of the global implementation of lockdowns to prevent the spread of COVID-19, a substantial increase in interest in home gardening has occurred. Many r homeowners begin their gardens in the winter so they can enjoy year-round access to fresh produce. During the lockout, they may keep healthy and avoid debt by ordering their food online. In recent months, home gardening has gained appeal due to the epidemic. The majority of households had a garden to supplement thei meagre food supply. To allow normal work to continue, the government is actively working to ease these regulations. Using the necessary taxonomies, one can deve automated system for tracking plant growth. This project combines image processing and the internet of things to monitor the plant's environment, including temperature, humidity, insects, and soil. The bulk of Indians are agriculturally dependent. This is why agriculture is commonly referred to as the "backbone" of the r Lack of water is the greatest threat to the agriculture business. Because the water supply is not being utilised appropriately, there is waste. The majority of farms co to have difficulty obtaining the water their crops require. A lack of water can harm both the soil and the crops. A functional monitoring or control system could be instrumental in fixing this issue. Agriculture is practised globally, which has a substantial impact on the growth and transformation of agricultural nations. Agricultur employs nearly two-thirds of India's labour force and accounts for roughly one-third of the country's gross domestic product (GDP). Historically, agricultural issues h impeded expansion worldwide. The solution to this problem is to adopt more sustainable agriculture practises while simultaneously enhancing more conventional agricultural practises. This project's objective is to build a hydroponic system with Node MCU and other Internet of Things technologies. Most importantly, this notic envisions a soilless, water-powered agricultural system. This hydroponic automated system is equipped with temperature and humidity sensors as well as electrical physical phenomenon circuits that direct the system on how much water and fertiliser to provide to the plants. An specialist in image processing developed a syster

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Application Details

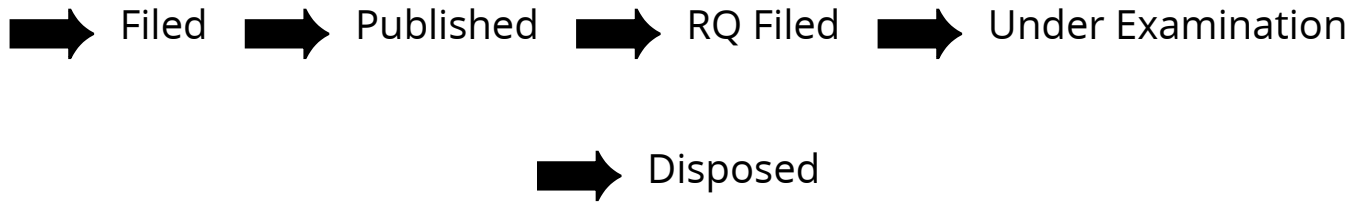
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FIELD OF INVENTION	COMPUTER SCIENCE
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APPLICATION STATUS

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