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Patent Search

Invention Title	Machine Learning based Pest Detection and Alert System for Farmers using IoT to Improve Agriculture Yield
Publication Number	35/2023
Publication Date	01/09/2023
Publication Type	INA
Application Number	202341050668
Application Filing Date	27/07/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, G06Q0050020000, A01M0031000000, G06N0003040000, H04L0067120000

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Abstract:

The present invention relates to provide a Machine Learning based Pest Detection and Alert System for farmers using IoT to improve agriculture yield. The system is a cutting-edge Pest Detection and Alert System designed to revolutionize agriculture by harnessing the power of IoT and Machine Learning. By seamlessly integrating sensors, state-of-the-art AI algorithms, and real-time data analysis, this system offers farmers an autonomous and proactive solution for detecting and combating pest infestations. Timely and accurate pest alerts enable farmers to adopt targeted interventions, leading to higher agricultural yield and sustainable farming practices.

Complete Specification

Description: Technical field of invention:

The present invention relates to provide a Machine Learning based Pest Detection and Alert System for farmers using IoT to improve agriculture yield.

Background:

Pests and diseases pose significant threats to global food security, leading to substantial crop losses for farmers worldwide. Traditional pest monitoring methods are intensive, inefficient, and often fail to provide timely information for effective intervention. Previous pest detection systems, while promising, have encountered challenges in scalability and accuracy. Therefore, our present invention aims to address these limitations by offering an advanced, automated, and IoT-driven approach to pest detection and management.

Prior Art:

Existing pest detection systems have incorporated elements of IoT and AI, but most have relied on conventional sensors and lacked real-time data analysis capabilities. Our systems have achieved true autonomy, quick response times, and seamless integration of components, giving a distinctive advantage.

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Page last updated on: 26/06/2019