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<p>(51) International classification :A01M0031000000, G06N0020000000, A01M0001020000, G06N0003040000, G06N0003080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Vibhor Kumar Vishnoi</b> Address of Applicant :Department of Computer Science, Faculty of Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand - 249404 -----</p> <p><b>2)Dr. Krishan Kumar</b> <b>3)Dr. Brajesh Kumar</b> <b>4)Dr. Ajay Indian</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Vibhor Kumar Vishnoi</b> Address of Applicant :Department of Computer Science, Faculty of Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand - 249404 -----</p> <p><b>2)Dr. Krishan Kumar</b> Address of Applicant :Department of Computer Science, Faculty of Science, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand - 249404 -----</p> <p><b>3)Dr. Brajesh Kumar</b> Address of Applicant :Department of Computer Science &amp; IT, MJP Rohilkhand University, Bareilly, Uttar Pradesh - 243006. ----</p> <p><b>4)Dr. Ajay Indian</b> Address of Applicant :Department of Computer Science, Central University of Rajasthan, Bandar Sindri, Ajmer, Rajasthan - 305817 -----</p>
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(57) 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 IoT-Based Machine Learning Pest Detection and Alert System is a novel approach that overcomes the limitations of traditional pest monitoring techniques. By incorporating IoT devices, such as smart cameras and environmental sensors, with state-of-the-art machine learning algorithms, this system can continuously monitor crop fields for signs of pest infestations. By timely and accurately identifying potential pest threats, farmers can take preventive measures, minimizing crop damage and increasing agricultural yield. This system stands apart from previous pest detection approaches due to its autonomous, data-driven nature, offering unprecedented efficiency and yield enhancement.

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