(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/11/2024

(21) Application No.202441091394 A

(43) Publication Date : 25/04/2025

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE (AI) ENABLED SYSTEM AND METHOD FOR PINEAPPLE DISEASE DETECTION AND LOCALIZATION

(51) International classification	:G06N0020000000, G16H0050200000, G06V0010820000, G06Q0050020000, G01N0033680000	(71)**Name of Applicant :**
		  1)GMR INSTITUTE OF TECHNOLOGY
		    Address of Applicant :GMR Nagar, Rajam, Andhra Pradesh Rajam ----------- ------------
		Name of Applicant : NA
		Address of Applicant : NA
		(72)**Name of Inventor :**
		  1)DR. K. LAKSHMANA RAO
		Address of Applicant :Department of Computer Science and Engineering, GMR Institute of Technology, GMR Nagar, Rajam, Andhra Pradesh- 532127 Rajam ----------- -----------
		  2)DR. A. VENKATARAMANA
		Address of Applicant :Department of Computer Science and Engineering, GMR Institute of Technology, GMR Nagar, Rajam, Andhra Pradesh- 532127 Rajam ----------- -----------
		  3)DR. C. L. V. R. S. V. PRASAD
		Address of Applicant :Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar, Rajam, Andhra Pradesh- 532127 Rajam ----------- -----------

(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
ABSTRACT AN ARTIFICIAL INTELLIGENCE (AI) ENABLED SYSTEM AND METHOD FOR PINEAPPLE DISEASE DETECTION AND LOCALIZATION
The present invention relates to an artificial intelligence (AI) enabled pineapple disease detection and localization. proposes an advanced machine learning-based system for the early detection, classification, and localization of diseases in pineapple crops, addressing the limitations of traditional inspection methods. The system utilizes a mobile application to provide farmers real-time disease insights, enabling prompt action against specific diseases, reducing spread, and enhancing crop yield.
To be published with Figures 1 and 10

No. of Pages : 24 No. of Claims : 4