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Smart AI Based Agri Webpage with E-Commerce

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Abstract: *Agriculture remains one of the most important sectors, as it directly influences food availability and the economic well-being of farmers. However, many farmers continue to face difficulties such as plant diseases, changing weather patterns, insufficient technical support, and poor access to agricultural markets. To tackle these challenges, this paper introduces a Smart AI Based Agri WebApp with E-Commerce that leverages artificial intelligence along with web-based technologies to deliver effective farming assistance. The proposed application offers features including intelligent crop suggestions, crop disease identification using image analysis, weather-based insights, and recommendations for appropriate pesticides and fertilizers. Furthermore, an integrated e-commerce platform enables farmers to easily purchase essential agricultural inputs such as seeds, fertilizers, and farming equipment. The system is developed with secure login mechanisms and an easy-to-use interface to ensure wider usability. By utilizing machine learning techniques to analyze agricultural and environmental data, the solution supports informed decision-making, enhances crop yield, minimizes losses, and contributes to improved farmer income while encouraging sustainable agricultural practices*

Keywords: Smart Agriculture, Artificial Intelligence, Crop Disease Detection, Machine Learning, Agri Web Applications, E-Commerce, CNN, Logistic Regression

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