LITERATURE REVIEW

S. NO	TITLE & AUTHOR	YEAR & PUBLICATIONS	METHODOLOGY	ADVANTAGE	DRAWBACK
1	An Artificial Intelligence and Cloud based Collaborative platform for Plant Disease Identification ,Tracking and Forecasting for Farmers Kaushik Kunal Singh	**2018** IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)	Environmental Science	Farmers can instantly and accurately identify diseases and get solutions with a mobile app by photographing affected plant parts.	Not Appropriate in certain condition
2	Fertilizers Recommendation System for Disease Prediction in Tree Leaves R. Neela P. Nithya	**2019** International Journal of Scientific &Technology Research	Internet of Things	Recommend the fertilizer for affected leaves based on severity level. Fertilizers may be organic or inorganic.	Require farmers to understand & learn the use of technology
3.	Soil Based Fertilizer Recommendation System for Crop Disease Prediction System Dr.P.Pandi Selvi, P.Poornima	**2021** International Research Journal of Engineering and Technology (IRJET)	Ardunio UNO based technology	Fertilizers were recommended based on the nutrients present in the soil.	Even when the framework was digitalized, it has certain problems as, predicting a diverse fertilizer for a soil type, certain files regarding the leaf disease or soil type or fertilizer may not be updated.

4.	Study on the Prognostication of Crop Diseases using Artificial Intelligence B.S. Eleena, Meghana Mangipudi, k.Apoorva	**9th May 2021** Asian Journal of Research in Computer Science	Artificial Intelligence	This is used to saving time and also preventing the loss of crops.	Losses of adjacent crops and contamination of groundwater.
5.	Plant Disease Identification Based on Deep Learning Algorithm in Smart Farming Yan Guo, Jin Zhang	**2020** IJISRT(International Journal of Innovative Science and Research Technology)	Computer Science	The results show that the accuracy of the method is 83.57%, which is better than the traditional method	Most farmers are not well aware of this technology.
6.	Plant Disease Detection Using Machine Learning Shima Ramesh Maniyath, Vinod P.V, Ramachandra Hebber, Pooja.R	**2018** International Conference on Design Innovations for 3Cs Compute Communicate Control (ICDI3C)	Computer Science	The created datasets of diseased and healthy leaves are collectively trained under Random Forest to classify the diseased and healthy images.	Improper implementation can cause much more harm than good.
7.	Design and Implementation of Fertilizer Recommendation System for Farmers Kanaga Suba raja Subramaniyam	**November 2020** IJISRT International Journal of Innovative Science and Research Technology	Wireless Sensor Network Technology	This venture is extremely valuable to farmer to pick the right fertilizer toward the start of product cycle and amplify the yield.	Increases the financial burden on farmers.

8.	Crop and Fertilizer Recommendation and Disease system using Machine Learning and Internet of Things Taranjeet singh, Anmol sehgal, Siddhesh Mahajan	**July 2022** IJFEAT International Journal For Engineering Applications And Technology	Machine Learing and IoT	Prediction algorithms help us to classify the data based on the disease, and data extracted from the classifier is used to predict soil and crop.	Most farmers are not well aware of this technology.
9.	A Nutrient recommendation system for soil fertilization based on evolution computation Usman Ahmed, Jerry Chun-Wei Lin, Youcef Djenouri	**October 2021** Elixir International Journal	Computers and Electronics in Agriculture	The method can help identify the region to assess crop suitability under certain nutrients levels and give insight into nutrient suitability assessments concerning specific crops in a climate-changing world.	Most farmers are not well aware of this technology.

10.	Fertilizer recommendation for Agriculture: Practice,Practicalities and adaptation in Bangladesh and Netherlands Sulthan, M.N.A.and Abdullah	**2021** Published with Open Access at Journal BiNET	Organic Agriculture	**Soil test and subsequent fertilizer recommendation was pioneered and provided to farmers by the Soil Resource Development Institute (SRDI), Ministry of Agriculture, Bangladesh.**	Increases the financial burden on farmers.