Literature Survey

Team ID	PNT2022TMID21501
Project name	Fertilizers Recommendation System For Disease Prediction

Team Members:

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1. Literature Survey – 1:

Link: http://www.ijstr.org/final-print/nov2019/Fertilizers-Recommendation-System-For-Disease-Prediction-In-Tree-Leave.pdf

Author Name	Title of the Paper	Publication Year	Description	Advantage
R.Neela, P.Nithya	Fertilizers Recommendation System For Disease Prediction In Tree Leave	2019	After pre-processing using a median filter, segmentation is done by Guided Active Contour method and finally, the leaf disease is identified by using Support Vector Machine. The disease-based similarity measure is used for fertilizer recommendation.	The proposed SVM technique gives a better result when compared to existing CNN.

2. Literature Survey – 2:

Link: https://www.ijraset.com/research-paper/plant-disease-detection-and-fertilizer-suggestion

Author Name	Title of the Paper	Publication Year	Description	Advantage
Apurva Save, Aksham Gupta, Sarthak Pruthi, Divyanjana Nikam, Prof. Dr. Shilpa Paygude	Plant Disease Detection and Fertilizer Suggestion	2022	This paper proposes a deep learning-based model that will be trained with photos of healthy and diseased crop leaves from a dataset. The model will achieve its goal by categorizing photos of leaves into unhealthy categories based on defect patterns.	The highest training accuracy is 96.75% provided by the MobileNetV2 architecture.

3. Literature Survey – 3:

Link: https://www.sciencedirect.com/science/article/pii/S0308521X1730104X

Author Name	Title of the Paper	Publication Year	Description	Advantage
M.Donatelli R.D.Magarey S.Bregaglio L.Willocquet J.P.M.Whish S.Savary	Modelling the impacts of pests and diseases on agricultural systems	2017	A model that shows impact of pest and disease on crops is developed using PDM (Pest and Disease Modelling). Applied modelling of crop diseases and pests has	This approach took advantage of the multi-point features within APSIM (the ability to simultaneously simulate

| | | | mostly targeted the development of support capabilities to schedule scouting or pesticide applications. | multiple points in space and the interactions between them) and the input/output features that simplified communication between multiple models. |