LITERATURE SURVEY

Team id: PNT2022TMID07943

Project title: FERTILIZERS RECOMMENDATION FOR DISEASE PREDICTION

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SNO	TITLE	PROPOSED WORK	TOOLS USED / ALGORITHM	TECHNOLOGY	ADVANTAGES / DISADVANTAGES
1	Plant Disease Detection using Deep Learning	Proposed model has achieved 98.3% testing accuracy.	Convolutional Neural Network	Deep learning	Though this system is trained on Plant Village dataset with only 38 classes it could tell if the plant has a disease or not as somehow symptoms are same in all kinds of plants.
2	PlantBuddy: An Android Based Mobile Application for Plant Disease Detection using Deep Convolutional Neural Network	an android based mobile application has been developed to detect and identify plant diseases using deep CNN	 Convolutional Neural Network Image Preprocessing 	Deep learning	The dataset images used in the study are captured in indoor lighting and environment.

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3	Some Plant Disease Identification and Prevention using Machine Learning	Identification of plant diseases and what kind of prevention and remedies they should take to prevent their crops from the disease	 Image Processing Plant Disease Identification Machine Learning 	Image Processing Machine Learning	The farmers will be able to accurately detect the type of disease a particular plant is having using the image of the plant the proposed system is based on these modules
4	Plant Disease Detection and Suggestions using Mobile Application	The system proposed is a web and mobile portal that aims to improve the overall productivity and efficiency of the agriculture industry.	 RGB image acquisition Support Vector Machine KNN algorithm 	Machine Learning	The system achieved an accuracy rate of 96.77 %. The training model was saved for further use using pickle.

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5	Smart Plant Disease Detection System	Mobile based design for leaf disease detection using Gabor wavelet transom (GWT). In this system firstly color conversion from the device dependent to color space model.	Data PreprocessingCNN Algorithm	Deep learning Image Processing	With very less computational efforts the optimum results were obtained which also shows the efficiency of algorithm in recognition and classification of the leaf diseases.
6	Crop and Fertilizer Recommendation System using Machine Learning	The system comes with a model to be precise and accurate in predicting crop yield and deliver the end user with proper recommendations	Pre-processingSupport Vector Machine	Machine Learning	The Support Vector Machine Used in this project gives the accuracy over 90.01%, Besides the accuracy of the SVM is (mean accuracy=0.950; mean AUC=0.934; mean F1 score=0.903)

THANK YOU...