Fertilizers Recommendation System for Disease Prediction

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**LITERATURE SURVEY**

Here are some of the previous solutions that attempts to solve issues in fertilizer recommendation and disease prediction.

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| **S.**  **No** | **Author & Year** | **Title** | **Methodology** | **Dataset used** | **Inferences** |
| [1] | Dr.P. Pandi Selvi, P.  Poornima  (Mar-Apr 2021) | Soil Based Fertilizer Recommendatio n System for Crop Disease Prediction System | 1. Registration phase 2. The user will upload the soil test report. 3. The corresponding crops infection status will be analyzed and recorded. 4. The fertilizers are recommended | Real time data recording | The proposed system was able to analyze the soil nutrient type efficiently, kind of leaf disease present in the crop and predict the fertilizer in a proficient manner. The approach was flexible, and can be extended to the needs of the users in a better manner. The proposed method was carried out with five different  crops. |
| [2] | R.Neela nithiya (November 2019) | Fertilizers recommendation system for disease prediction in tree leaves | 1.Using digital image processing  2.Admin can store the fertilizers based on diseases categorization on with severity levels  3.compare the performance of the proposed SVM method with the existing CNN method | Digital image processing | The proposed method uses SVM to classify tree leaves,identify the disease and suggest the fertilizers the proposed method is compared with the exiting CNN based leaf disease prediction |

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| [3]. | SK Mahmudul Hassan; Arnab Kumar Maji (January 2022) | Plant Disease Identification Using a Novel Convolutional Neural Network | 1. Convolutional Neural Network 2. Residual Network 3. Depth wise Separable Convolution 4. Proposed Novel CNN Approach for Identification of Plant Diseases | Rice plant dataset, cassava plant dataset, and Plant village dataset | It can effectively classify the diseases in plants. Training the network requires much less time as compared to the standard CNN. The  experimental result shows that the proposed  model achieves good accuracy. |
| [4] | Archana chougule vijaykumarjha Debajyoti mukhopadhyay (July 2029) | Crop suitability and fertilizers recommendation using data mining techniques | 1.Agriculture is the main source of income and survival in india for majority population  2.Various data mining techniques can be used for finding recommendation about corps and fertilizers  3.Recommendation of fertilizers is based on nitrogen,phosphorous and podassium measurements from soil  4.It helps to prevent the inappropriate application of fertilizers in wheat production systems in china | Fertilizers recommandation | As recommendation of fertilizers and crops is important for farmers in farming in design making thus ain of this system is to increase the production of crops by recommendation correct crop and fertilizer |
| [5] | Dr.P.Pandiselvi,p.poornima mar(april 2021) | Soil based fertilizer recommendation system for crop disease prediction system | 1.The advanced farming involves various techniques as Iot,cloud computing and data mining  2.The first step involved the registeration phase  3.Second step the user will upload the soil test report  4.Finally the fertilizers are recommendation | IOT,cloud computing and data mining | The authors purposed a new approach for the soil basede fertilizers prediction system the purpose system was able to analyzs the soil nutrient type efficiently |

URL Reference:

[1] <http://www.ijetajournal.org/volume-8/issue-2/IJETA-V8I2P1.pdf>

[2] <http://www.ijstr.org/final-print/nov2019/Fertilizers-Recommendation-System-For-Disease-Prediction-In-Tree-Leave.pdf>

[3] https://ieeexplore.ieee.org/document/9674894

[4]<https://www.researchgate.net/publication/326304244_Crop_Suitability_and_Fertilizers_Recommendation_Using_Data_Mining_Techniques>

[5] http://www.ijetajournal.org/volume-8/issue-2/IJETA-V8I2P1.pdf