

IDEATION PHASE LITERATURE SURVEY

Date	19 October 2022
Team ID	PNT2022TMID41636
Project Name	Fertilizers Recommendation System For Disease Prediction

TITLE : FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION INTREE LEAVE

AUTHOUR : R.NEELA, P.NITHYA

DESCRIPTION: Abstract- Agriculture is the main aspect of country development. Many people lead their life from agriculture field, which gives fully related to agricultural products. Plant disease, especially on leaves, is one of the major factors of reductions in both quality and quantity of the food crops. In agricultural aspects, if the plant is affected by leaf disease then it reduces the growth of the agricultural level. Finding the leaf disease is an important role of agriculture preservation. 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.

TITLE : SOIL BASED FERTILIZER RECOMMENDATION SYSTEM FOR CROP DISEASE PREDICTION SYSTEM

AUTHOUR : Dr.P.PANDI SELVI, P.POORNIMA

DESCRIPTION: Agriculture is the heart and life of most Indians. But in recent days, the field was going down due to various natural calamities. In order to overcome the problem, various issues in this field need to be addressed. The soil type, fertilizer recommendation, diseases in plants and leaves. All these features need to be considered. Our proposed system was organized in such a way, to analyze the soil type, diseases in the leaves and finally to recommend the appropriate fertilizer to the farmers, that may be of great help to them. Plant disease, especially on leaves, is one of the major factors that reduce the yield in both quality and quantity of the food crops. Finding the leaf disease is an important role to preserve agriculture. Smart analysis and Comprehensive prediction model in agriculture helps the farmer to yield right crop at the right time. The main benefits of the proposed system are as follows: Yield right crop at the right time, Balancing the crop production, control plant disease, Economic growth, and planning to reduce the crop scarcity.

Hence to Detect and recognize the plant diseases and to recommend fertilizer it is necessary to provide symptoms in identifying the disease at its earliest. Hence the authors proposed and implemented new fertilizers Recommendation System for crop disease prediction.

TITLE : CROP AND FERTILIZER RECOMMENDATION AND DISEASE DIAGNOSIS SYSTEM

AUTHOUR : TARANJEET SINGH, SAURABH ANAND, ANMOL SEHGAL, SIDDHESH MAHAJAN, PROF. PRANOTI KAVIMANDAN

DESCRIPTION : Crop Recommendation system, Fertiliser suggestion system, Crop Disease Detection System. We will develop an IOT device that will examine the quality of soil and can also detect crop diseases on scanning the leaves of the crops. Soil testing is significant since it allows for the determination of soil fertility and hence crop prediction. Soil pH is a measure of the acidity and alkalinity in soils. pH levels range from 0 to 14, with 7 being neutral, below 7 acidic and above 7 alkaline.. We are using Machine Learning classification algorithm to predict suitable crops based on the values we get from our device and we will also provide suitable fertilizers required for that land. We believe this will help the farmers in producing greater yield of crops and crop damage can also be prevented to a larger extent.