**LITERATURE SURVEY**

The paper[1] focusses on the necessary required information and also outlines the need to establish fertilizers recommendation system for disease prediction is explained. It profoundly analyses the foundation of the farming with pinpoint accuracy. Author starts explaining the precision farming from rudiments and proceeds in the direction of developing a model which provides a foundation for it. The paper clearly explains the software model which uses Precision agriculture so individual farmers who operate on a small farmland which helps at the crop level and a also has a hold so control the variability. The overall goal of the developed model is to provide guidance for every farmer irrespective of the crops they are growing whether the may grow in small or large farmland by using the must reachable e-services like SMS,mail. The author has developed the model which is restricted to the state of Kerala in India.

In paper[2] emphasis on the importances of the selection of the crops initially to be grown and also the elements determining plant assortment like the rate of the product, fare in the market and the policies of the government are explained. This paper has come up with Crop Selection Method which provides a solution for the selection of the crops at the initial stage and also focuses on improving the net yield rate of the crop. It aims at providing the advice for the farmers by providing the series of crop that can be selected by keeping in mind various elements like weather, condition of the soil, water density and th crop type which the farmer would like to grow. The accuracy of the Crop Selection Method in considered finally.

In paper[3] Intends in figuring out the imperative botheration of choosing Ensemble prototype learning classifiers. The ensemble model requires many classifier algorithms to be given, so there always lies a confusion as to which classifiers has to be choosen. This paper focus on getting a method which helps in choosing the best classifiers that can be given to a ensemble model. The classifiers chosen will have high accuracy. The classifier which are chosen should also have high performance rate. In context of high performance and high accuracy the author has proposed a method known as Selection by accuracy and Diversity: In order to choose significant and more accurate classifies the author used Q- Statistics to compare between the relevant classifier. The ensemble is developed by taking the clasifiers. The author considered various algorithms.The SAD algorithm was superior in the others.

In paper[4] facet on building a system which aims at increasing the productivity rate of the crop by using sensors to analyze the soil condition. The soil in which the crops are grown is analyzed and a report is created based upon which the fertilizers to be given are advised. The author proposing a system which adopts the predictive model type for the prediction of the fertilizers it also recommends the type of fertilizes.The author has embraced the AI fie shrewd and intelligent. The AI technology also enhances the efficiency and also it reduces efforts the manpower strength which in turn reduces the time for the framer spent in farm. Thus the paper strictly hold on to the use of AI to analyse the soil conditions and recommend fertilizer for the farmers according to the report thus helping the farmers to increase the productivity of their crops.

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