**PROJECT**

**FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICITION**

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**LITERATURE SURVEY-1**

**TITLE :** Detection of Leaf Diseases and Classification using Digital Image Processing

**AUTHOR :** R Meena Prakash, GP Saraswathy, G Ramalakshmi

**YEAR OF PUBLISHED :** 2017

The main objective of this paper is image analysis and classification techniques for detection of leaf diseases and classification. The leaf image is firstly pre processed and then does the further work.K-Means Clustering used for image segmentation and then system extract the GLCM features from disease detected images. The disease classification done through the SVM classifier.

**Advantages** : The system detects the diseases on citrus leaves with 90% accuracy.

**Disadvantages** : System only able to detect the disease from citrus leaves.

**Algorithm used** : Gray-Level Co-Occurrence Matrix (GLCM) features, SVM, K-Means Clustering.

**LITERATURE SURVEY-2**

**TITLE :** Cloud Based Automated Irrigation And Plant Leaf Disease Detection System Using An Android Application

**AUTHOR :** Ranjith , Saheer Anas, Ibrahim Badhusha

**YEAR OF PUBLISHED :** 2017

The current paper proposesan android application for irrigation and plant leaf disease detection with cloud and IoT. For monitoring irrigation system they use soil moisture and temperature sensor and sensor data send to the cloud. The user can also detect the plant leaf disease. K-means clustering used for feature extraction.

**Advantages**: It is simple and cost effective system for plant leaf disease detection.

**Disadvantages**: Any H/w failures may affect the system performance.

**Algorithm used**: K-means clustering.