## V.S.B. ENGINEERING COLLEGE, KARUR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IBM NALAIYA THIRAN

## **EMPATHY MAP**

TITLE : Fertilizers Recommendation System for Disease Prediction

TECHNOLOGY : Artificial Intelligence

DOMAIN NAME : Rural and Agriculture Development

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## **PROBLEM STATEMENT:**

Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques. Our project is proposed to build an automated system which is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases.

## **EMPATHY MAP:**

Quantity of pesticides usage

Authorization by Government Enjoy building the richness of the plant

Small farmers cannot afford

Wants ease and convenience Takes lot of money to switch from traditional to modern Financial Affordability Think about the development

Permissible limit of toxins

Is it organic

Whether it reduces yield

Concern over savings and waste



Observe it in different soil composition

Composts and employs integrated pest management

Provides facility maintenance

Test in different crops Do research on these pesticides Do a sample test on minimum quantity Eager to see the growth

Poisoning

due to

pesticides

Worried about the results

Great gap in market in order to capitalize on

authenticity

Afraid of Failure

Excited about functionalities