



PROJECT PROPOSAL

1. Project Title:-



KeepItGreen – Plant Leaf Disease Detection App

2. Project Scope:-



Agricultural production is something on which Indian economy highly depends. This is one of the reasons that disease detection in plants plays an important role in agricultural field, as having disease in plants is quite natural. If proper care is not taken in this area then it can be very dangerous and can effect on crops and consequently the relevant product quality. Detection of plant disease through some automatic technique is beneficial as it reduces a large work of monitoring in big farms of crops, and at very early stage itself it detects the symptoms of diseases i.e. when they appear on plant leaves. KeepItGreen – Plant Leaf Disease Detection App project is about collecting images of various infected, good and seemingly infected plant leaves. Then apply image processing on the images and predict the infected plant's leaf using Deep Learning and Image Processing. The main purpose is to detect the diseased part of the leaf. Using python, Convolutional neural network are implemented in order to classify the diseased part. Aim is to detect the diseased part by finding the optimum way with minimum cost.

3. Requirements:-

Hardware requirements: -

Processor: Minimum 1 GHz; Recommended 2GHz or more

Windows: 7 or newer or

MAC: OS X v10.7 or higher or

Linux: Ubuntu

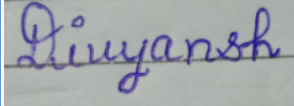
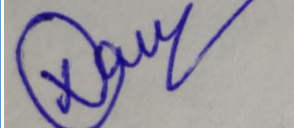
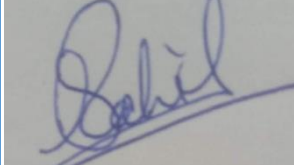

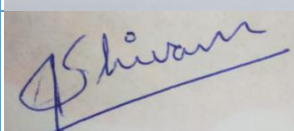
Software requirements: -

Jupyter Notebook

Python Libraries— TensorFlow , Pandas, NumPy, Matplotlib, Scikit-learn, Keras, Open-CV , Pickle

Frontend — Android Studio

STUDENTS DETAILS

| Name | UID | Signature |
|----------------|-----------|--|
| DIVYANSH DODAN | 19BCS6106 |  |
| NANCY TYAGI | 19BCS6105 |  |
| SAHIL THAKUR | 19BCS6103 |  |
| SWEETY | 19BCS6128 |  |
| SHIVAM | 19BCS6129 |  |

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

| Name | Title | Signature (with Date) |
|---------------|------------|-----------------------------|
| Prof. Shivani | Supervisor | |