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Section & Batch no:	**Name & Roll Number:**		**Project Guide:**
CSE-D BTACH -6	PINISETTI BALU ABHISHEK RAJBANSHI DASARI KRUPAJYOTHI DHULIPUDI PERUMALLA SWAMY	22MH1A0551 22MH1A0501 23MH5A0506 22MH1A0513	**MS T.SATYA KUMARI** **Assistant professor**

Department of Computer Science & Engineering – Project Proposal Submission

Project Title:	**Domain area:**
Harvestify - Plant disease Detection for crops	Artificial Intelligencne & Manchine Learning

Abstract:

Farmers in many parts of India are having trouble growing crops because of the climate and soil. There could be no genuine assistant available to assist them with encouraging the right sorts of plants using current advancement. Due to illiteracy, farmers may not be able to benefit from advances in agricultural science and continue using human methods. This makes it difficult to achieve the desired yield. For instance, improper fertilization or unintentional rainfall patterns may be the cause of crop failure. In such circumstances, picking crops that are suitable for the soil's current conditions and the anticipated rainfall during planting would be the best course of action. Thus, we are presenting an information mining-based "Soil-Based Profile Profiling Framework." In light of the rancher's region's precipitation and soil input boundaries (NPK and pH), we provide a list of possible yields. Based on the image to just detect the disease. Additionally, it suggests fertilizer that can be utilized to increase crop yields and enhance the soil's quality. The growing problem of crop failure is the focus of this web application.

Objectives: (up to 4 objectives):

- **Early Disease Detection:** Develop a system to accurately identify crop diseases at an early stage using image recognition and AI techniques.
- **Accurate Classification:** Classify different types of plant diseases to help farmers take precise and timely action.
- **Real-Time Monitoring:** Enable real-time monitoring of crops through images captured via smartphones or drones for quick diagnosis.
- **Farmer Guidance:** Provide actionable recommendations for treatment or prevention based on the detected disease to improve crop yield and reduce losses.

Note: (Attach 4 reference papers)

Project Co-ordinator **Project Guide**