ARTIVERSE 2.0

Team Name	**: TechMinds**
Theme	**: Student Innovations**
Title	**:**AI POWERED PLANT IDENTIFICATION AND PLANT DISEASE CLASSIFICATION SYSTEM
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ABSTRACT

The Plant Disease Detection project uses Convolutional Neural Networks such that the diseases in the plants are identified based on the images of tainted leaves. The system takes a dataset of both normal and 39 different disease affected leaves and feeds them to the model after going through preprocessing techniques .Real-time Diagnosis and Solutions: It makes it easier to diagnose diseases by use of a mobile or web application and provides improvement in fertilizer recommendations hence improves the intervention time.Early detection and recommendations draw action that prevent crop losses and identify more appropriate fertilizer use.

Fertilizer Recommendations: With each identified disease, the system gives suggestions of the kind of fertilizer required with a click-through to the buying link. This feature improves the ways of management for crops because it provides modules to diagnose and treat the crops.

KEYWORDS: Convolutional Neural Networks (CNNs),DeepLearning,AI&ML,Plant identification,Plant Disease prediction ,Fertilizer Recommendations, fertilizer with a click-through to the buying link

PROGRAMMING LANGUAGES & TOOLS: Python,JavaScript,HTML/CSS **Frameworks:** PyTorch,TensorFlow,Flask