**Title of the Project**  :  Tomato Leaf Disease Detection Using

Ensemble CNN Model

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**ABSTRACT**

This project presents an AI-based system for the detection of tomato leaf diseases using deep learning techniques. The model employs a Convolutional Neural Network (CNN) architecture trained on the PlantVillage dataset to identify common tomato diseases such as Early Blight, Late Blight, and Leaf Mold.

The system captures an image of a tomato leaf and predicts the disease class with high accuracy. It can be deployed on mobile or desktop platforms, making it accessible to farmers for early diagnosis and crop protection.

The proposed model enhances agricultural productivity by providing quick, reliable, and cost-effective disease detection, ultimately reducing the need for manual inspection and preventing large-scale crop losses.