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Abstract-Crop diseases pose a severe threat to global food security and rural economics, particularly in developing regions with limited access to agricultural expertise. Early, accurate, and accessible diagnostic tools are crucial for reducing crop loss and improving sigle diactomes. This research presents a deep learning-based crop disease prediction system integrated into a Flush-based web platform, titled FloraFlex. The proposed system utilizes a convolutional neural network (CNN) trained on labeled crop leaf images to detect and classify plant diseases with high accuracy. The absence of reliance on specialized hardwar or sensors makes FloraFlex a scalable, accessible, and resource-efficient alternative to 10-dependent systems. The explication architecture, raining methodology, evaluation criteria, and system performance are evaluation criteria, and system performance are uppacauon arcunecture, training methodology, evaluation criteria, and system performance are discussed, with results demonstrating a ~97% classification accuracy and sub-2-second prediction speed.

I. INTRODUCTION

Agricultural losses due to crop diseases account for over 20% of global yield reduction annually. Farmers, especially smallholders, foren lack immediate access to agricultural scientists or diagnostic tools, resulting in delayed responses to emerging threats. Traditional approaches—manual impection, laboratory testing, or every consultation—are often slow, inconsistent, and geographically constrained.

additional hardware.

Crop diseases pose a severe threat to global food security and rural economies, particularly in developing regions with limited access to agricultural experients. Early, accurate, and agricultural experients. Early, accurate, and care properties and prop

Mohanty et al. [1] were among the first to demonstrate the effectiveness of deep learning for plant disease classification, activiting high the control of the control of the control of the Activity and Confedence and the control of the Activity and Confedence and the control of the deeper models like Resides-60 and VGGI by sield superior classification performance in agricultural applications.