



FINAL YEAR PROJECT REPORT

**PLANT DISEASE IDENTIFICATION
USING AI**

**In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)**

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DECLARATION

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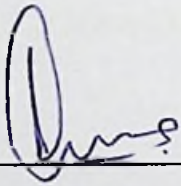
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PLANT DISEASE IDENTIFICATION

ABSTRACT

Plant diseases pose a significant risk to food security and the health of agricultural systems. Identifying and managing these diseases is a challenge in many regions due to lack of resources. This book provides a comprehensive guide to plant diseases, particularly focusing on the identification and management of common diseases. It includes a detailed description of the symptoms, signs, and causes of various plant diseases, as well as the available control measures. The book is designed to be a practical guide for farmers, extension workers, and researchers. It is a valuable resource for anyone interested in plant diseases. This approach, which involves using a series of questions to identify plant diseases, is a simple and effective way to diagnose plant diseases. It is a valuable resource for anyone interested in plant diseases. This approach, which involves using a series of questions to identify plant diseases, is a simple and effective way to diagnose plant diseases. It is a valuable resource for anyone interested in plant diseases.

Specially dedicated to
my faculty and parents
Zubair Mansuri
my parents , teachers and the agriculture farmers
Umer Salman
my beloved grandmother, mother and father
Rakin Habri

PLANT DISEASE IDENTIFICATION

ABSTRACT

Plant diseases pose a significant risk to both food security and the health of green spaces. However, identifying these diseases quickly remains a challenge in many regions due to inadequate infrastructure and limited development. Fortunately, the combination of widespread internet access and recent advancements in computer vision, particularly through deep learning, has opened up new possibilities for diagnosing diseases based on images. By utilizing a publicly available dataset containing images of healthy and diseased plant leaves gathered under controlled conditions, we can train a deep convolutional neural network to recognize various plant diseases. This approach, which involves training deep learning models on large and accessible image datasets, offers a promising pathway to enable global-scale crop disease diagnosis with the assistance of networks.

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