

A Mini Project Report on

**“PLANT DISEASE DETECTION**

**USING**

**MACHINE LEARNING TECHNIQUES”**

Submitted

In partial fulfilment of the requirement for the VI Semester of Bachelor of Technology in Computer Science and Engineering during the

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**SCHOOL COMPUTING AND INFORMATION TECHNOLOGY**

**CERTIFICATE**

This is to certify that the mini project entitled “**PLANT DISEASE DETECTION USING MACHINE LEARNING TECHNIQUES**” is a bona fide work carried out by Kamjula Chandrasekhar, Harish C, Rohith N S, Jeevan H C bearing SRN R16CS177, R16CS148, R16CS520, R16CS169 respectively in partial fulfilment of 6th semester of Computer Science and Engineering program of Bachelor of Technology, REVA University during the academic year 2018-19. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the school library. The mini-project report has been approved as it satisfies the academic requirements in respect of mini-project prescribed for the 6th semester of CSE program.

Signature of the Guide Signature of the Director

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Signature of External

**ACKNOWLEDGEMENT**

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**TABLE OF CONTENTS**

**CERTIFICATE (i)**

**ACKNOWLEDGEMENT (ii)**

**TABLE OF CONTENTS (iii)**

**LIST OF FIGURES (iv)**

**LIST OF TABLES (iv)**

**LIST OF SCREENSHOTS (v)**

**ABSTRACT (vi)**

**CHAPTER TITLE PAGE**

1 INTRODUCTION 1

1.1 Overview 1

1.2 Motivation 3

1.3 Objectives 3

2 LITERATURE SURVEY 4

2.1 Related Work 4

3 SOFTWARE & HARDWARE REQUIRMENTS 7

3.1 Software Specification 7

3.2 System Requirements 7

3.3 Hardware Specification 7

4 SYSTEM ANALYSIS 13

4.1 Existing System 13

4.2 Proposed System 13

5 SYSTEM DESIGN 16

5.1 System Architecture 16

5.2 Data Flow Diagram 18

6 IMPLEMENTATION 19

7 EXPERIMENTAL RESULTS 24

8 CONCLUSION AND FUTURE ENHANCEMENT 29

REFERENCES 31

**LIST OF FIGURES**

**FIGURE TITLE PAGE**

1.1 Lettuce Growing in Garden 1

3.1 Raspberry pi model 3 8

3.2 Arduino UNO/Genuino UNO 9

3.3 Pin diagram for Arduino UNO 10

3.4 IBT-2 MOTOR Controller 11

5.1 Architecture of plant disease detection 16

5.2 Block diagram of plant disease detection 17

5.3 Data flow diagram for leaf disease detection 18

6.1 code for importing packages 20

6.2 reading and input acquired image 20

8.1 Three-tire architecture for future enhancement 30

**LIST OF TABLES**

**TABLE TITLE PAGE**

2.1 Difference b/w AlexNet and SqueezeNet 6

3.1 Properties of Raspberry Pi model 3 B+ 8

3.2 Properties of Arduino Uno 9

4.1 Colour coding table 14

**LIST OF SCREENSHOTS**

**SCREENSHOT TITLE PAGE**

6.3 Interactive application for disease detection 23

7.1 Starting the process 24

7.2 Healthy leaf output 25

7.3 Contour, mean shift, canny edge detection 25

7.4 Output of infected leaf image 26

7.5 Browse an image from system 27

7.6 select the image 27

7.7 Showing the output 28

**ABSTRACT**

Crop diseases serve as a major threat to food supply. As a result of growing of Robotic technology throughout the world, it has now become technical feasible to leverage image processing techniques with deep learning to identify type of plant disease from a sample photo. The mini project aims at building a Robo car type which detects the lettuce plant leaf and leafy vegetable diseases. Using public dataset of 2,000 images of diseased and healthy plants, a pretrained model is implemented to detect the type of disease the plant has and send the same massage to the farm owner. Identifying diseases can lead to quicker interventions that can be implemented to reduce the effect of crop diseases on food supply.