



# ATMIYA UNIVERSITY

## DESIGN AND DEVELOPMENT OF A MODEL TO CLASSIFY CROP FOLIAR DISEASES

A  
Thesis  
Submitted to the  
Atmiya University,  
For the Degree  
of

**Doctor of Philosophy**  
in  
**Faculty of Science**

by  
**Akruti Narendrakumar Naik**  
Enrolment No. 190881001

Under the Guidance of  
**Dr. Hetal R. Thaker**  
Department of Computer Science

**ATMIYA UNIVERSITY,**  
**Yogidham Gurukul, Kalawad Road,**  
**Rajkot-360005, Gujarat (India)**

November, 2022

**Declaration by Research Scholar**  
**Originality of Research Work**

I declare that thesis entitled "*Design and Development of a Model to Classify Crop Foliar Diseases*" is my own work conducted under the supervision of **Dr. Hetal R. Thaker** at Department of **Computer Science**, Faculty of **Science**, Atmiya University, Rajkot, Gujarat, India and approved by the Director of Research.

I further declare that to the best of my knowledge the thesis does not contain any part of any work which has been submitted for award of any degree either in this University or any other University without proper citation.

Date: 21/11/2022

Place: Atmiya University, Rajkot

A. N. Naik

Akruti Narendrakumar Naik

## Certificate of Supervisor

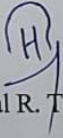
This is to certify that work entitled "*Design and Development of a Model to Classify Crop Foliar Diseases*" is a piece of research work done by **Akruti Narendrakumar Naik** under my supervision for the degree of Doctor of Philosophy in Department of **Computer Science**, Faculty of **Science**, Atmiya University, Rajkot, Gujarat, India

To the best of my knowledge and belief the research work and thesis

- I. Embodies the work of candidate herself,
- II. Has duly been completed,
- III. Fulfils the requirement of ordinance related to Ph.D. degree of the University &
- IV. is up to the standard both in respect of content and language for being referred to the examiner.

Date: 21/11/2022

Place: Atmiya University, Rajkot



Dr. Hetal R. Thaker



## Certificate

### Pre Thesis Submission Presentation

This is to certify that **Akruti Narendrakumar Naik** has made Pre Ph.D. presentation on the research work entitled **Design and Development of A Model to classify Crop Foliar Diseases** in the Faculty of Science, Atmiya University, Rajkot on **10/09/2022** before Departmental Research Committee for getting feedback and comments.

This is also to certify that all the suggestions and comments given by the Doctoral Progress Review Committee are incorporated. Moreover the presented research work was appreciated and recommended by all attendees.

Date: 10/09/2022

Place: Rajkot

Research Coordinator



## Thesis Approval Form

The Viva-Voce of the Ph.D. thesis entitled "*Design and Development of a Model to Classify Crop Foliar Diseases*" submitted by **Akruti Narendrakumar Naik (Enrolment No. 190881001)** was conducted on **17/11/2022 (Thursday)** at Atmiya University, Rajkot, Gujarat

Based on the Performance of the Candidate, We, the panel of examiners, recommend that  
(Please tick any of the following)

1. He / She be awarded Ph.D. Degree  
2. He / She be awarded Ph.D. Degree with minor modification

Please Suggest Modification

3. The following modifications are to be incorporated in the thesis within one month and viva-voce be re-conducted by the same panel of examiners




Please Suggest Modification

4. He / She should not be awarded Ph.D. Degree

Please mention Reason for Rejection

Date: 17/11/2022

Place: Rajkot

Signature			
	Research Supervisor	University Nominee	External Examiner

## Declaration by Research Scholar Submission of Thesis

I declare that the submitted thesis entitled "*Design and Development of a Model to Classify Crop Foliar Diseases*" incorporates

1. All the suggestions / directions / modifications / additions / deletions received from the supervisor and the external examiners through their thesis evaluation reports.
2. All the suggestions / directions / modifications / additions / deletions received from the panel of examiners during the public viva-voce (Open Defence) conducted on **17 / 11 / 2022**

Date: 21/11/2022

Place: Atmiya University, Rajkot

A.N.Naik

Akruti Narendrakumar Naik



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اکریتی نایک

**Akruti Naik**