

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



A PROJECT REPORT ON

**“AN ANDROID APP FOR MUSHROOM DISEASE
DETECTION-A DATA MINING APPROACH”**

Submitted in partial fulfillment of the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

Ms. NIDHI CHAKRAVARTHY

4AL15CS062

Mr. PRAJWAL S

4AL15CS069

Ms. RAKSHITHA M

4AL15CS078

Under the Guidance of

Mr. Hemanth Kumar N P

Senior Assistant Professor



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA**

2018 – 2019

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri-574225



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"AN ANDROID APP FOR MUSHROOM DISEASE DETECTION-A DATA MINING APPROACH"** has been successfully completed by

Ms. NIDHI CHAKRAVARTHY 4AL15CS062

Mr. PRAJWAL S 4AL15CS069

Ms. RAKSHITHA M 4AL15CS078

The bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Mr. Hemanth Kumar N P
Project Guide

Dr. Manjunath Kotari
Head of the department

Dr. Peter Fernandes
Principal
PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.M.
Signature with Date

Name of the Examiners

External Viva

1. MAHESH B.L.
2. S. Mounish Budhan

12/12/19

14/12/19

TABLE OF CONTENTS

A data mining application is introduced for selecting highly effective factors or symptom of different disease diagnosis in mushroom yield. The study also focuses on several factors causing a specific mushroom disease. Highly potential symptoms among several factors were focused out for better management in this regard. That is why data mining techniques are being used for ranking among symptoms. In this project we have describe the development of an Android application that gives users or farmers the capability to identify the mushroom diseases based on the photographs taken from an android application. Detecting diseases on mushroom plant at early stages gives strength to overcome it and treat it appropriately by providing the details. The classification techniques and disease prediction of mushroom dataset were prepared using Naïve Bayes algorithms.

| | | |
|-----------|-----------------------------|-------|
| 1.1 | Problem Statement | 1-6 |
| 1.2 | Motivation | 1 |
| 1.3 | Proposed Solution | 4 |
| Chapter 2 | LITERATURE SURVEY | 7-8 |
| 2.1 | Background Study | 7 |
| Chapter 3 | REQUIREMENT SPECIFICATION | 9-11 |
| 3.1 | Functional Requirements | 9 |
| 3.2 | Non-Functional Requirements | 9 |
| 3.3 | Hardware Requirements | 10 |
| 3.4 | Software Requirements | 10 |
| Chapter 4 | SYSTEM ANALYSIS | 12-13 |
| 4.1 | Existing System | 12 |
| 4.1.1 | Disadvantages | 12 |
| 4.2 | Proposed System | 12 |
| 4.2.1 | Advantages | 12 |
| 4.2.2 | Applications | 13 |