

# **Revolutionizing Farmer Support Systems through Connected Ecosystems**

**A PROJECT REPORT**

*Submitted by,*

<b>G K RAGHAVENDRA RAO</b>	<b>20211CSE0241</b>
<b>BHARATH B NAGILLA</b>	<b>20211CSE0243</b>
<b>JAYANTH D</b>	<b>20211CSE0246</b>
<b>S KUSHAL</b>	<b>20211CSE0336</b>

*Under the guidance of,*

**Mr.Amarnath J.L**

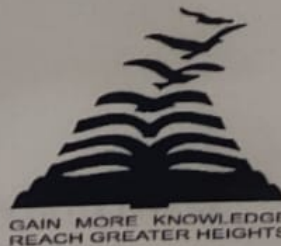
*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**At**



**PRESIDENCY UNIVERSITY**

**BENGALURU**


**JANUARY 2025**

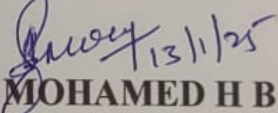
# PRESIDENCY UNIVERSITY

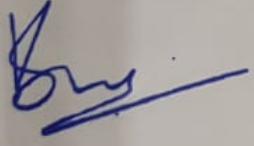
## SCHOOL OF COMPUTER SCIENCE ENGINEERING

### CERTIFICATE

This is to certify that the Project report “**Revolutionizing Farmer Support Systems through Connected Ecosystems**” being submitted by “**G K RAGHAVENDRA RAO, BHARATH B NAGILLA , JAYANTH D , S KUSHAL**” bearing roll number(s) “**20211CSE0241, 20211CSE0243, 20211CSE0246, 20211CSE0336**” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

  
13/01/2025.  
**Mr. AMARNATH J.L**  
Assistant Professor  
School of CSE & IS  
Presidency University

  
13/1/25  
**Dr. ASIF MOHAMED H B**  
Associate Professor & HoD  
School of CSE & IS  
Presidency University

  
**Dr. L. SHAKKEERA**  
C Dean School of  
CSE Presidency  
University

**Dr. MYDHILI NAIR**  
Associate Dean  
School of CSE  
Presidency University

**Dr. SAMEERUDDIN KHAN**  
Pro-Vc School of Engineering  
Dean -School of CSE&IS  
Presidency University

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#### DECLARATION

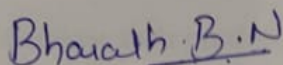
We hereby declare that the work, which is being presented in the project report entitled **Revolutionizing Farmer Support Systems through Connected Ecosystems** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Mr. Amarnath J.L.**, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.

We have not submitted the matter presented in this report anywhere for the award of any other Degree.



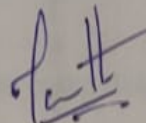
G K RAGHAVENDRA RAO

20211CSE0241



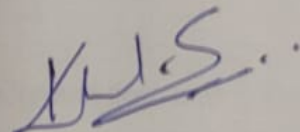
BHARATH B NAGILLA

20211CSE0243



JAYANTH D

20211CSE0246



S KUSHAL

20211CSE0336



## ABSTRACT

The agriculture industry of India is acutely important as it accounts for a considerable share of the nations' earnings and rural wage earners. Although vital, farmers frequently find themselves facing numerous challenges, e.g., being isolated from markets, receiving very low prices back from their crops, having no access to high quality seeds and machinery, and being vulnerable to exploitation by intermediaries. These problems lower their productivity and earnings.

AgriEase enters the scene to address these problems by providing a complete, simple-to-use farmer-oriented mobile solution. With this app, it is possible to have a secure user authentication and a marketplace platform, where the user is able to rent or to buy agricultural machineries. It also provides an explicit sales channel for horticulture as well as a weather insights module that provides the most suitable crops to grow according to the local weather conditions. Furthermore, the MRP module updates the information about the current price of the product in nearby markets, utilizing the information available on the government AgriData site. AgriEase helps farmers make better decisions regarding their crops, eliminating the middleman.

AgriEase enables farmers to increase their production, to make data informed decisions and to obtain financial support to improve their economic status. The app will have future software version enhancements that will enable personalized recommendations based on artificial intelligence, support of multiple languages, secure blockchain-based transactions, and increased market reach. These improvements will enable AgriEase to change and meet the emerging demands of farmers, which in turn will facilitate the growth, the efficiency and the sustainability in agriculture.

## ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected dean **Dr. Md. Sameeruddin Khan**, Pro-VC, School of Engineering and Dean, School of Computer Science Engineering & Information Science, Presidency University for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate Deans **Dr. Shakkeera L and Dr. Mydhili Nair**, School of Computer Science Engineering & Information Science, Presidency University, and Dr. "Asif Mohammed", Head of the Department, School of Computer Science Engineering & Information Science, Presidency University, for rendering timely help in completing this project successfully.

We are greatly indebted to our guide **Mr. Amarnath J.L**, Assistant Professor and Reviewer **Ms. Megha.D.Bengaluru**, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University for his/her inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the PIP2001 Capstone Project Coordinators **Dr. Sampath A K**, **Dr. Abdul Khadar A** and **Mr. Md Zia Ur Rahman**, department Project Coordinators **Mr.Amarnath J.L** , **Dr.Jayanthi K** and Git hub coordinator **Mr. Muthuraj**.

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

**G K Raghavendra Rao**

**Bharath B Nagilla**

**Jayanth D**

**S Kushal**