

UPLIFTING FARMERS THROUGH A CONNECTED ECOSYSTEM

A PROJECT REPORT

Submitted by,

Ms. LAVANYA RAMACHANDRA – 20211CAI0079
Ms. KAMINI PRAJAPATHI S – 20211CAI0148
Ms. MEKALA SAI LAKSHMI – 20211CAI0165
Ms. TEJASWINI K A – 20211CAI0145

Under the guidance of,

Dr. AKSHATHA Y
Assistant Professor - Selection Grade

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

At



PRESIDENCY UNIVERSITY

BENGALURU

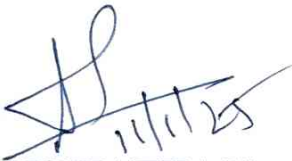
JANUARY 2025

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project report “UPLIFTING FARMERS THROUGH A CONNECTED ECOSYSTEM” being submitted by “LAVANYA RAMACHANDRA, KAMINI PRAJAPATHI S, MEKALA SAI LAKSHMI, TEJASWINI K A” bearing roll numbers “20211CAI0079, 20211CAI0148, 20211CAI0165, 20211CAI0145” 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.



Dr. AKSHATHA Y
Assistant Professor – Selection Grade
School of CSE&IS
Presidency University



Dr. ZAFAR ALI KHAN
HOD-CAI & ISR
School of CSE&IS
Presidency University



Dr. L. SHAKKEERA
Associate 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




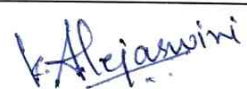
PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **UPLIFTING FARMERS THROUGH A CONNECTED ECOSYSTEM** 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 **Dr.Akshatha Y, 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.

NAMES	ROLL NO	SIGNATURES
Ms. LAVANYA RAMACHANDRA	20211CAI0079	
Ms. KAMINI PRAJAPATHI S	20211CAI0148	
Ms. MEKALA SAI LAKSHMI	20211CAI0165	
Ms. TEJASWINI K A	20211CAI0145	

ABSTRACT

FarmConnect is a game-changing mobile application which allows farmers to better manage their farming activities. It provides a comprehensive solution by offering services such as machine rentals, agri-financing, market linkages and counsel. Its features allow one to manage their day-to-day operational activities efficiently and increases productivity by including the features such as transaction history, current mandi point, price and available vendor information. Moreover, the platform enhances the financial mechanisms of farmers by enabling access to agri-credit as well as all the granular transaction details. Created by using Java programming language for backend, XML for front end designs, Firebase for real time data management and Android Studio for the development platform. FarmConnect combines mobile technology and agriculture to solve problems of poor resource access and poor process and expert integration at one go. This app brings together farmers, vendors and agriculture specialists with the aim of promoting Sustainable Agriculture and maximizing profitability. FarmConnect wishes to use these means to give farmers tools to solve problems, make profits, improve rural areas and save lives. The App encourages inclusive growth and agricultural productivity, which are essential for a Sustainable Global Future.

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. Zafar Ali Khan**, 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 **Dr. Akshatha Y**, Assistant Professor and Reviewer **Dr. Kokila**, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University for 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 **Dr. Afroz Pasha**, Assistant Prof 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.

Lavanya Ramachandra
Kamini Prajapathi S
Mekala Sai Lakshmi
Tejaswini K A