# 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



GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

## PRESIDENCY UNIVERSITY
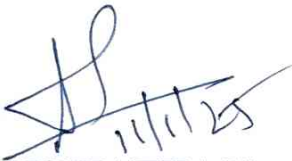
## BENGALURU

## 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
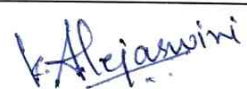Dean -School of CSE&IS
Presidency University

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# 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