
Assured Contract Farming System for Stable Market Access

A PROJECT REPORT

Submitted by

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Under the guidance of

Dr. SASIDHAR BABU SUVANAM

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)



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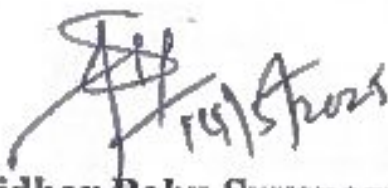
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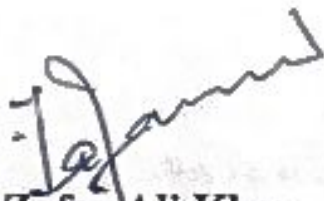
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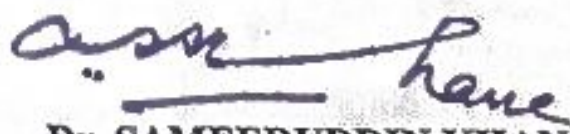
CERTIFICATE

This is to certify that the Project report "Assured Contract Farming System for Stable Market Access" being submitted by "DUGASANI MEGHANA, VENKATA SAI MEGHANA, VIJAYA KUMARI, HRUSHIKESH REDDY, SUNIL KUMAR REDDY" bearing Roll number(s) "20211CAI0023, 20211CAI0049, 20211CAI0012, 20211CAI0022, 20211CAI0053" in partial fulfilment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a Bonafede work carried out under my supervision.


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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled "Assured Contract Farming System for Stable Market Access" 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. Sasidhar Babu Suvanam, Professor, Presidency School of Computer Science Engineering, Presidency University, Bengaluru.

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

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ABSTRACT

The agricultural sector, particularly for small and marginal farmers, continues to struggle with unstable income due to the unpredictability of open market dynamics, fluctuating crop prices, lack of guaranteed buyers, and exploitation by intermediaries. This has led to a cycle of low profitability, poor investment in farm inputs, and reduced motivation to adopt sustainable farming practices. To overcome these long-standing challenges, this project proposes the development of a robust digital solution titled "**Assured Contract Farming System for Stable Market Access**", which aims to provide a secure and transparent platform that facilitates direct contractual agreements between farmers and institutional buyers such as wholesalers, food processing companies, exporters, retailers, and government procurement bodies. The proposed system acts as an end-to-end online marketplace, enabling farmers to list their upcoming or ready-for-sale crops along with relevant details like expected yield, harvest date, location, and quality parameters. Simultaneously, buyers can post procurement requirements, set price offers, and initiate contract proposals with selected farmers. The platform provides a centralized interface for both parties to negotiate terms, finalize deals, and digitally sign legally binding contracts outlining deliverables, pricing, timelines, penalties, and quality standards. To ensure financial transparency and trust, the system incorporates a secure payment gateway for processing transactions, with options for milestone-based or escrow-based payments to safeguard both buyer and seller interests.

In addition, the platform includes features such as user profile management, contract tracking, delivery scheduling, automated reminders for due payments and deliveries, and a feedback system to rate transactional behavior, thereby building a trustworthy ecosystem over time.

Overall, the **Assured Contract Farming System** empowers farmers by giving them visibility into a secure and predictable marketplace, minimizing dependence on middlemen, and encouraging sustainable agricultural practices. At the same time, buyers benefit from improved supply chain traceability, reduced procurement risks, and stronger supplier relationships. By leveraging digital technologies to eliminate inefficiencies and establish accountability, this system has the potential to transform the rural agricultural economy, ensuring income stability, food security, and long-term socio-economic upliftment for farming communities.

ACKNOWLEDGEMENTS

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We are greatly indebted to our guide **Dr. Sasidhar Babu Suvanam**, Professor and Reviewer **Mr. Gnanakuamar Ganesan**, Assistant Professor Presidency School of Computer Science and Engineering, Presidency University for his inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the internship work.

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

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