

AGRIHUB - A Digital Agriculture Platform

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Abstract: *This project, titled “AgriHub – A Digital Agriculture Platform,” involves the design and development of a centralized, web-based system to provide farmers with real-time agricultural data and smart farming solutions. The system uses multiple integrated modules—including crop cultivation details, live market prices, government schemes, and direct expert advice—to deliver comprehensive support efficiently. The working principle is based on a role-based modular architecture built using modern web technologies like Spring Boot, Thymeleaf, and MySQL, which seamlessly connects farmers, buyers, and agricultural experts through a unified digital interface.*

The main objective of this project is to develop an accessible, cost-effective, and easy-to-use digital information hub suitable for small to medium-scale farmers and rural agricultural communities. The AgriHub platform reduces dependency on traditional manual information gathering and middlemen, improves data-driven decision-making, and ensures timely access to professional guidance compared to conventional offline methods. System design and research confirm that the platform performs reliably as an information exchange, demonstrating the practical application of Information and Communication Technology (ICT) in modernizing agriculture and promoting sustainable farming operations.

Keywords: Digital Agriculture, Smart Farming, Information and Communication Technology (ICT), E-Agriculture

