

Krishi Raksha - A Disease and Pest Control App

A Capstone Project Report

Submitted by,

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Under the guidance of,

Mr. Likhith S R
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in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At



PRESIDENCY UNIVERSITY

BENGALURU

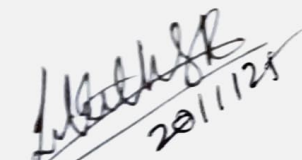
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PRESIDENCY UNIVERSITY


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CERTIFICATE


This is to certified that the Capstone Project report “**Krishi Raksha - A Disease and Pest Control App**” being submitted “**Ronit Pathak, Sohith N R, Shambhavi K M, Chakradhar Reddy**” bearing roll number “**20211CAI0010, 20211CAI0006, 20211CAI0036, 20211CAI0156**” in partial fulfillment of requirement for the award of degree of **Bachelor of Technology in Computer Science and Engineering** is a bonafide 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 **Krishi Raksha - A Disease and Pest Control App** 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. **Likhith S R**, 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.

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ABSTRACT

Powered by the state-of-the-art Gemini AI, Krishi Raksha offers a groundbreaking platform designed to provide real-time diagnosis of plant diseases and pests through advanced image analysis. The application not only identifies potential threats but also delivers actionable insights and tailored recommendations to farmers, enabling them to take immediate and effective measures to mitigate crop losses.

Krishi Raksha distinguishes itself with its focus on user-centric design and accessibility, ensuring that even farmers with minimal technological expertise can benefit from its features. By simplifying complex AI processes into an intuitive interface, the application bridges the gap between cutting-edge technology and practical, everyday use.

Krishi Raksha is more than just a diagnostic tool—it represents a vision for the future of agriculture, where technology and innovation work hand-in-hand to ensure food security and economic prosperity. Through continuous development and integration of advanced AI capabilities, Krishi Raksha aims to become a cornerstone of smart farming practices, creating a more resilient and sustainable agricultural sector for generations to come. By addressing critical gaps in current solutions and expanding its scope to include features like multilingual support, IoT integration, and predictive analytics, Krishi Raksha is poised to redefine the way farmers protect their crops and manage their resources.

Key Words: Pests, Artificial Intelligence (AI), Gemini AI, Real-Time Diagnosis, Image Analysis, Sustainable Farming, Crop Loss Mitigation, Actionable Insights.