TOP STUDENT PROJECTS

Best innovations from VTU, Chintamani

PROJECT TITLE

Smart Sericulture Health and Predator Monitoring System

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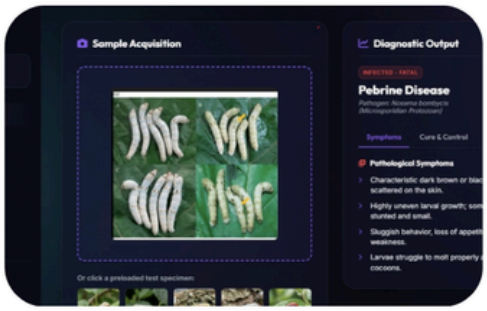


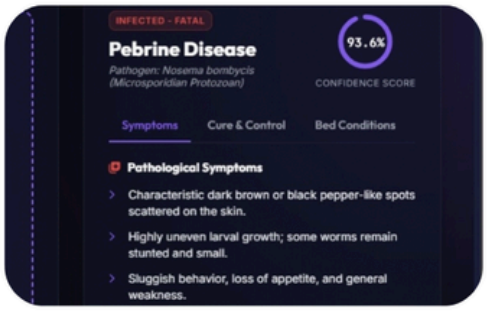
PROBLEM STATEMENT

How might we help sericulture farmers to protect silkworms from diseases and predator intrusion from delayed manual checking to continuous smart monitoring so as to reduce financial losses despite difficulty in maintaining constant surveillance of rearing beds?

SOLUTION

The Smart Sericulture Health and Predator Monitoring System is an AI-powered mobile application designed to monitor silkworm health and detect predators in real time. Farmers can capture or upload images of silkworms using a smartphone. The system first verifies whether the image contains a silkworm and then analyzes it to identify diseases, abnormal growth patterns, and health issues. It also detects predators such as ants, spiders, wasps, and other harmful insects. Based on the analysis, the application provides instant alerts, health status reports, and preventive recommendations, helping farmers take timely action and reduce losses.





SCAN ME

Technology stacks:

- Artificial Intelligence (AI)
- Mobile Application Development
- Internet of Things (IoT)
- Real-Time Monitoring and Alert System
- Disease Detection and Classification
- Predator Detection System