

NITHESH

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SUMMARY

IoT enthusiast with practical experience in working with sensors, Arduino, ESP8266, Raspberry Pi, and cloud integration platforms. Passionate about Machine Learning, Full Stack Development (Python, React),. Committed to building innovative and scalable technology solutions.

EDUCATION

Bachelor of Computer Application

AUG 2022 - PRESENT

Yenepoya University

Specialization in IOT, Cyber Security, Ethical Hacking

PUC

APR 2020 - MAY 2022

Vittal Pre-University College

Specialization in Physics, Chemistry, Mathematics, Computer Science

PROJECTS

Node - Red Empowered AgTech: IoT Solution for Farming Analytics

- Built an IoT- powered farm monitoring system using Node-RED, ESP32, and sensors (NPK, soil moisture, DHT11) with real-time MQTT data transmission.
- Developed ML-based Streamlit apps for crop recommendation and plant disease detection from leaf images.
- Designed a remote-controlled AgTech robot with live camera feed for automated field surveillance and data collection.

IoT & ML-Driven Precision Agriculture System for Water Optimization and Disease Detection

- Built an IoT-based precision farming system using ESP32 and environmental sensors that reduced water usage by 25% through automated irrigation control.
 - Developed a computer vision system capable of detecting diseases in mango, banana, and pomegranate crops with 92% accuracy using deep learning models.
 - Created a real-time fruit monitoring solution with YOLO-based object detection for yield estimation and maturity analysis, integrated with a Firebase dashboard.
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SKILLS

Hard Skills: C++, Python, HTML, CSS, PHP, JavaScript, MySQL, Frontend and Backend Developer, IOT, Embedded Systems.

Soft Skills: Project Management, Leadership and Communication.

Languages: English, Kannada, Tulu, Hindi, Malayalam

ACHIEVEMENTS & ACTIVITIES

- National Level IBM Hackathon Runner-up, GLA University, Uttar Pradesh
- Winner – IBM ICE DAY 2025 Hackathon & 2nd Runner-up – Project Presentation, YIASCM
- 2nd Runner-up – IBM ICE DAY 2024 Technical Paper Presentation & Hackathon Participant, YIASCM
- University Level Best NSS Volunteer Award
- Joint Secretary, Executive Board – OWASP Mangaluru Chapter (2024)
- Secretary, Ardour Newsletter – Student Council, YIASCM
- Organized major intercollegiate fests: Vistara 2024, Tarang 2024, Yenixa 2.0
- Participated in IDE Bootcamp 2024, NITK Surathkal