

MOHIT ROSCEN M.

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PROFILE

Pre-final year Computer Science student at Manakula Vinayagar Institute of Technology with a proven track record in developing innovative solutions across AI, IoT, and Web technologies. Passionate about translating cutting-edge technology into practical, user-focused applications in healthcare and automation.

EDUCATION

Manakula Vinayagar Institute of Technology <i>Bachelor of Technology in Information Technology</i>	Puducherry 2023 – 2027
Bhagavan Hr. Sec. School <i>Higher Secondary Education</i>	Tamil Nadu 2021 – 2023

INTERNSHIP EXPERIENCE

APPSTARS Application Pvt Ltd <i>Web Development Intern</i>	Chennai, TN July 2025 – Sep 2025
<ul style="list-style-type: none">Developed and deployed responsive web applications using HTML5, CSS3, JavaScript, and modern frameworks.Collaborated with cross-functional teams to design user-friendly interfaces and implement frontend features.	
Sky Scholar <i>Mobile App Development Intern</i>	Chennai, TN Jan 2025 – March 2025
<ul style="list-style-type: none">Completed comprehensive training in Flutter framework and Dart programming language.Built functional mobile applications with interactive UI components and state management.	

WORKSHOPS & LEADERSHIP

Technical Workshop Lead AI, Drone Tech & Robotics	Feb 2026
<ul style="list-style-type: none">Conducted a one-day technical workshop for 9th and 10th-grade students featuring live demonstrations of working systems to bridge the gap between theory and practice.	

PROJECTS

Smart ICU Alert System IoT, ESP32, Firebase, Flutter	
<ul style="list-style-type: none">Developed a patient monitoring system that triggers hardware buzzers and sends real-time app notifications (Name, Bed No, Reason) to medical staff during emergencies.	
Smart Traffic Light Management System Python, IoT, ESP32, ML	
<ul style="list-style-type: none">Designed an intelligent system that dynamically adjusts signal timing based on vehicle density using ML models to optimize traffic flow efficiency.	
AI Farming Drone CNN, Python, Drone Technology	
<ul style="list-style-type: none">Developed a drone-based detection system using Convolutional Neural Networks to identify plant diseases in real-time, improving agricultural yield monitoring.	

AI Chat Medic App for Elderly Care | *Flutter, Firebase, AI, Healthcare*

- Developed an AI-powered healthcare assistant application designed for elderly users with features including appointment booking, medical report search, medicine doubt clarification, and real-time healthcare guidance.
- Integrated smart chatbot support and user-friendly interfaces to improve accessibility and simplify healthcare management for senior citizens.

AI Weather Prediction & Smart Farming System | *IoT, AI, ESP32, Python*

- Built an intelligent weather prediction and farming automation system using IoT sensors and AI models to provide accurate land-specific weather forecasting and environmental analysis.
- Designed a predictive dashboard displaying four-direction weather differentiation reports with city-based analytics and upcoming weather predictions for improved farming decisions.
- Integrated automated water control systems for agricultural land management based on real-time climate predictions and sensor data.

Multi-Purpose Robotic Arm | *Robotics, IoT, Embedded Systems*

- Designed and developed a multi-purpose robotic arm with synchronized color-themed hardware design for automation and object handling applications.
- Implemented precise movement control mechanisms for industrial and smart automation tasks using embedded system integration.

TECHNICAL SKILLS

Technical: Python, Java, C++, Flutter, Dart, HTML5, CSS3, JavaScript, Bootstrap

Tools: PyCharm, Figma, Arduino IDE, Git & GitHub, Vercel, Streamlit, Hugging Face

Other Skills: Video Editing, Piano Artist, Poster creation, Canva

LANGUAGES

Tamil: Native

English: Fluent

Hindi: Fluent

ACHIEVEMENTS

- 1st Prize: International Project Expo at Arunai Engineering College
- 1st Prize: Front-end Development at Datanerdz.Ai
- 1st Prize: Student Achiever Award at MVIT
- 1st Prize: Idea Pitching at Arunai Engineering College
- 2nd Prize: International Project Expo at Anna University Tiruchirappalli
- 3rd Prize: 24-hour Hackathon at Arunai Engineering College
- 3rd Prize: Project Expo at Indra Ganesan College
- 3rd Prize: Project Expo at Loyola College Chennai