SANTHOSH KOTHANDAN

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in Santhosh Kothandan

Electronics and Communication Engineering student with a passion for Automation. Proficient in programming languages and seeking to apply these skills in a dynamic and innovative environment. Eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Committed to making a significant impact on company goals and objectives

Education

- **Higher Secondary** — 2020-2021
  Government Boys Higher Secondary School, Cheyyar — Percentage: 82.17

- **Bachelor of Engineering in Electronics and Communication Engineering** — 2021-2025
  Prathyusha Engineering College, Tiruvallur — CGPA: 8.33

Projects

- **Product Detection API using Machine learning**
  Developed an OCR and YOLOv8-based product detection system for real-time text recognition and product classification.

- **Autonomous Drone Navigation System**
  Built an autonomous drone with Raspberry Pi, integrating sensors and vision with GPS navigation.

- **Autonomous Object Manipulation System**
  Created an autonomous robotic arm, using servo motors for movement and computer vision for manipulation.

- **Self-Navigating Rover Model for Planetary Exploration Tasks**
  Built a Mars Rover with MYRIO, utilizing sensors and motors for autonomous exploration and terrain mapping.

Internships

- **Indian Space Research Organisation**
  - Working at ISRO gave me hands-on experience in circuit design, testing and data analysis.
  - Collaboration with top scientists taught me precision, teamwork and pride, knowing our work contributed to India's space advancements.

- **Pantech Solutions**
  - Designed IoT-based embedded systems to enable real-time data collection and monitoring, integrating various sensors with microcontrollers for efficient data processing.
  - Implemented communication protocols like MQTT and HTTP, ensuring reliable data transfer between embedded devices and cloud platforms.

- **Gradtwin**
  - Collaborated on building full-stack features by connecting React-based frontend with Django REST API backend, improving user interaction and data flow.
  - Wrote SQL queries for data storage and retrieval, supporting key functionalities like user profiles, form submissions, and activity logs.

Certifications

- **NPTEL Online Certification – Introduction to Internet of Things**
  Conducted by IIT Madras via SWAYAM – Completed in 2023.

- **ICT Academy – Learnathon 2022**
  Completed foundational training in emerging technologies including IoT, Cloud, and Python Basics.

Technical Skills and Interests

Languages: Python, Javascript, HTML+CSS

Hardware: Circuit Designing, LabVIEW

Web Dev Tools: Nodejs, VScode, Git, Github

Cloud/Databases: AWS, PostgreSQL

Areas of Interest: Design and Development, Robotics and Automation

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Flexibility