

# ASWIN SINDHU S K

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## PROFESSIONAL EXPERIENCE

### Project Intern

Humanitarian Technology (HuT) Labs

- Developed AI-based solutions addressing humanitarian needs, focusing on creating an AI communication system specifically designed for children with Autism Spectrum Disorder (ASD) and Cerebral Palsy

## INTERNSHIP EXPERIENCE

### SISEA Research Internship

Madras Institute of Technology

- Development and testing of hybrid VGG-16 AI model for accurate tuberculosis detection using chest X-rays.

### Implant training in Telecom Technologies

BSNL-Bharat Sanchar Nigam Limited

- Acquired hands-on experience with BSNL's telecom equipment and services.

### Industrial Based Embedded Systems With Artificial Intelligence and IoT

National Small Industries Corporation - Technical Services Center

- Developed embedded systems integrated with AI and IoT technologies and Designed and optimized power supply models for IoT applications.

### Rover Design and Fabrication

Vayusastra Aerospace Limited IITM RP

- Researched performance trends in rover technology and IoT applications, Designed and implemented an IoT-based object avoidance land rover system.

## PROJECTS

### AI based dysarthric speech recognition system for Kids with speech impairments due to Cerebral Palsy (CP) and autism spectrum disorder (ASD).

2025

Artificial Intelligence, Machine Learning and Deep Learning

### Embedded AI System For Borewell/ Manhole Monitoring And Safety System

2025

Embedded System and IoT

### Hybrid VGG-16 AI Model for Tuberculosis Detection

2024

Artificial Intelligence, Machine Learning and Deep Learning

### Deep Sea Fisherman Monitoring System

2023

Embedded System and IoT

Patent: India, Oct 2023 (No: 202341062459)

### Smart Wearable Device for Rescue Operations

2022

Embedded System and IoT

Patent: India, May 2023 (No: 202341026136).

## EDUCATION

### Bachelor of Engineering in Electronics and Communication

2021 – 2025

Amrita College of Engineering and Technology

Nagercoil, India

Percentage : 88%

### Class XII-Council for Indian School Certificate Examination(ISC)

2020 – 2021

Excel Central School

Thiruvattar, India

Percentage : 91%

### Class X-Council for Indian School Certificate Examination(ICSE)

2018 – 2019

Excel Central School

Thiruvattar, India

Percentage : 89.4%

## SKILLS

- Python Programming
- Machine learning and Deep learning
- Embedded C / Embedded System
- Web Development (HTML, CSS and Java Script)
- PostgreSQL
- PyTorch, TensorFlow, Keras

## AWARDS

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<b>TNSCST Project grant (7500 Rd. Grant)</b> <i>Tamil Nadu State Government</i>	2025
<b>Academic Topper</b> <i>Amrita College of Engineering and Technology</i>	2024
<b>Winner, Naan Mudhulavan Hackathon</b> <i>Naan Mudhulavan, TANSAM</i>	2024
<b>Winner, Nexus Hackathon (25 ,000 Rs. Grant)</b> <i>Coimbatore Institute of Technology</i>	2024
<b>Special Mention, Mapathon</b> <i>Indian Institutes of Technology, Bombay</i>	2023
<b>Zonal Level Chess Champion</b> <i>Anna University</i>	2023
<b>Winner, Smart India Hackathon (100 ,000 Rs. Grant)</b> <i>Government of India</i>	2022
<b>Best Delegate Award</b> <i>IIMUN Conference - Kanyakumari Chapter</i>	2020

## ORGANISATIONS

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<b>The Institution Of Electronics And Telecommunication Engineers (IETE)</b> <i>Active Member</i>	2025 – 2026
<b>YUVA - Amrita College of Engineering and Technology</b> <i>Innovation Chair</i>	2024 – 2025
<b>The Institution of Engineers (India)</b> <i>Active Member</i>	2024 – 2025
<b>Taksha Vidyuth - Amrita College of Engineering and Technology</b> <i>Event Coordinator</i>	2024
<b>Swachh Bharat Program - Amrita College of Engineering and Technology</b> <i>Volunteer</i>	2024

## CERTIFICATES

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• Network Essentials (CISCO)	• Python Programming (Guvi)	• Machine Learning 101 (Guvi)	• Enterprise (Cambridge University)
• Advanced Microsoft Office (Microsoft)	• CyberSecurity (Microsoft)		

## COURSES

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<b>Enterprise</b> <i>International General Certificate of Secondary Education, University of Cambridge</i>	2017 – 2018
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