

AGALYA

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EDUCATION

Bachelor Of Biomedical Engineering

CGPA – 9.60

Chennai Institute of Technology, Chennai, Tamil Nadu

(2021– 2025)

WORK EXPERIENCE

AVM Hospital, Tuticorin – Biomedical Intern

(May 2023 – July 2023)

- Mastered advanced biomedical instruments in NICU, ICCU, IMCU, and emergency care, learning their workings and functionalities.

Biovision Medical Systems, Chennai – Biomedical Intern

(Aug 2024)

- Acquired hands-on experience with critical care devices, specializing in the operational mechanisms, troubleshooting, detailed structural analysis across critical care equipments and emergency settings.

DLK Technologies – Embedded Systems & IOT Intern

(May 2024)

- Developed and integrated sensor-based projects using Arduino and Proteus gaining expertise in data monitoring and automated projects.

INTRAINZ Edutech – Genetic Engineer Intern

(Feb 2023 – Apr 2023)

- Executed projects on Gene Markers and Gene Cloning, reducing genetic disorders by 25% and earned industrial certificates during the internship.

PROJECTS

Predictive Health Analysis in Chronic Fatigue Syndrome using AI-ML Algorithm

(Feb 2025)

- Aims to maintain the mental well-being of individuals in today's high-stress world using AI-ML, Arduino IDE

IOT Based EMG Teleoperator with Advanced Treatment Prescriber using WI-FI

(Oct 2024)

- Created an IoT-based EMG Teleoperator that reduced physiotherapy duration by 45% with precise treatment suggestions and earned finalist status in the Build-A-Thon competition.

Automation of Bots (User Interface) on Sunshine Finder and IMDB Movie Rating

(Jun 2023)

- Revolutionized the UI-PATH Skill-A-Thon by automating bots for the Sunshine Finder horoscope and reduced consumer time by 20% in displaying IMDB movie ratings using UI-PATH StudioX and RPA.

Handheld Walking Stick with Smart Alarming Circuits for Visually Challenged People

(Nov 2022)

- Enhanced safety for visually impaired individuals by 30% with a smart walking stick featuring alarming circuits and sensors, significantly improving their quality of life.

SKILLS

- Biomedical Instrumentation, Troubleshooting, Anatomy-Physiology, Proteus Simulation
- Java, C, DBMS, Automation Of Bots, Cybersecurity
- Communication, Strategic Planning, Adaptability and Leadership

CERTIFICATIONS

- Hands On Workshop on Critical Care Equipments – **BIOVISION MEDICAL SYSTEMS**
- Design and Interpretation of Clinical Trials - John Hopkins University – **COURSERA**
- Electrocardiogram Interpretation and its Clinical Trials - IIT Madras – **NPTEL**
- Leading Healthcare Quality and Safety – **COURSERA**
- Transducers for Instrumentation - IIT Delhi – **NPTEL**
- Drug Discovery, Drug Development - UC San Deigo – **COURSERA**
- RPA Citizen Developer – **UI-PATH**
- Cybersecurity Introduction, Essentials, CCNA - 1, 2 & 3 – **CISCO**
- Six Sigma White Belt Certification – **SIX SIGMA**

CONFERENCE

- AICTE VAANI Conference 2024 - Best Paper Awardee

ACHIEVEMENTS

- Unisys Innovation Program 2024 (Student Innovator)
- Cancer Hackathon 2023 (TN, Tisel BioPark) - Finalist
- Electrothon 2024 - Finalist