Adhithya Heshan

Undergraduate – Computer Science (AI) | Robotics Intern

+94 75 955 4808 adithyaheshan5@gmail.com Linkedin
Ginigathena, Sri Lanka

PROFILE

I am a Computer Science undergraduate specializing in Artificial Intelligence at NIBM–KIC, with a strong academic and practical interest in Robotics Engineering. I am passionate about designing intelligent systems that integrate software, algorithms, and hardware to solve real-world problems. My interests include AI-driven automation, robotics systems, machine learning, and embedded technologies. I am motivated to continuously learn, build, and contribute to innovative engineering solutions while developing a career in robotics and intelligent systems.

PERSONAL DETAILS

DATE OF BIRTH
15/02/2003

GENDER
male

NIC/PASSPORT
200304612910

DRIVING LICENSE
B6188088

NATIONALITY
sinhala

EDUCATION

2014 - 2023
Ginigathena
G.C.E A/L & O/L
Ginigathena Central Collage

Feb 2024 - Apr 2024
Kandy
Certificate in Computer Science with AI
NIBM - Kandy Innovation Center

2024 - 2025
Kandy
Diploma in Computer Science with AI
NIBM - Kandy Innovation Center

Present
Kandy
Higher National Diploma in Computer Science with AI
NIBM - Kandy Innovation Center

SKILLS

Soft Skills
- Effective communication
- Teamwork and collaboration
- Leadership and initiative
- Time management
- Adaptability and flexibility
- Critical thinking
- Decision making
- Presentation skills

Hard Skills
- Problem solving and analytical skills
- Project planning and management
- System analysis and interpretation
- Algorithmic thinking
- Research and documentation
- Quality and performance optimization

Technical Skills
- Robotics system development
- AI driven automation
- Machine learning techniques
- Embedded systems and microcontroller programming
- Hardware and software integration
- Robot Operating System
- Sensor fusion
- Control systems and PID control
- Robotics simulation

Programming Language
- Python
- C
- C++
- Java
- HTML
- CSS
- JavaScript

PROJECTS

Smart Plant Watering System

IoT-Based Automated Irrigation and Monitoring System

- Designed and developed a smart plant watering system using microcontrollers, sensors, and automated control logic
- Implemented soil moisture sensing and real-time decision-making for efficient water usage
- Integrated automated irrigation control to optimize plant health and reduce water wastage
- Developed system logic for adaptive watering based on environmental conditions
- Delivered a fully functional prototype demonstrating reliable automation and practical IoT application

Acea AI

AI crop recommendation system

- Designed and developed an AI-based crop recommendation system using machine learning techniques
- Analyzed soil parameters, weather data, and environmental factors to generate optimal crop suggestions
- Implemented data preprocessing and feature selection to improve model accuracy
- Trained and evaluated machine learning models for reliable crop prediction outcomes
- Delivered a functional system to support data-driven decision-making in agriculture

Pearl Paths

Travel Booking Web Application

- Designed and developed a travel-booking platform using HTML/CSS/JS with a PHP backend
- Built user registration, booking submissions, and package selection workflows
- Integrated Google Maps API for destination visualization and route guidance
- Implemented structured UI layouts and secure data handling for smooth user experience

Urban greenery segmentation

Image segmentation project for identifying for greenery area

- Developed an urban greenery segmentation system using computer vision and machine learning techniques
- Implemented image segmentation to identify and classify green areas in urban environments
- Processed and annotated image datasets for model training and evaluation
- Applied image preprocessing and feature extraction to improve segmentation accuracy
- Built and tested a functional prototype for urban environmental analysis

WEBSITES & SOCIAL LINKS

GitHub FaceBook Instagram

REFERENCES

Prof. Sanath Amaratunga,
Professor at University of Peradeniya
sanath@agri.pdn.ac.lk, 071-8339593

Vimukthi Pathirana, Consultant | Lecturer, NIBM
vimukthi@nibm.lk, 071-0340367