





DEEGHAYU SUWAHAS ADHIKARI


Teaching Assistant | Voluntary Research Assistant @ UOK


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SUMMARY

A recent graduate and electronics teaching assistant with a strong foundation in software engineering, IoT, and embedded systems. With hands-on experience in real-time communication and autonomous systems, currently pursuing a Master's in IT. Proven expertise in developing resource-efficient IoT-based solutions, and keen to apply machine learning and computer vision skills to autonomous drone research. Skilled in managing projects, optimizing algorithms, and leading teams toward innovative solutions.

EDUCATION

Ongoing	<b>Master in Information Technology (Reading)</b>	University of Kelaniya
2021 - 2024	<b>BSc in Physical Science (Computer Studies, Electronics and Physics)</b> With a 2nd class upper division pass	University of Kelaniya
06/2023	<b>Certificate - Responsive Web Design</b>	<a href="https://www.freecodecamp.org">www.freecodecamp.org</a>
11/2023	<b>Certificate - Machine Learning with Python</b>	<a href="https://www.freecodecamp.org">www.freecodecamp.org</a>
10/2024	<b>Certificate - JavaScript Algorithms and Data Structures (Beta)</b>	<a href="https://www.freecodecamp.org">www.freecodecamp.org</a>
Ongoing	<b>Certificate - Introduction to Deep Learning</b>	DSCS   University of Kelaniya

PROJECTS

Ongoing	<b>IoT Queue Management System for National Institute of Infectious Diseases</b> Developed for the National Institute of Infectious Diseases. Secure, internet-free, QR-based IoT input device with real-time notifications using WebSockets.	
2023 - 2024	<b>Quadcopter Based Intelligent Irrigation System   Electronics Research Project</b> <a href="http://green-wing.scienceontheweb.net">http://green-wing.scienceontheweb.net</a> Merging electronics and agriculture, utilizing quadcopter technology with intelligent sensors for autonomous irrigation.	<a href="http://green-wing.scienceontheweb.net">http://green-wing.scienceontheweb.net</a>
2024	<b>AI-based Assignment-Solving Android App</b> Developing an Android application integrating Gemini AI to provide comprehensive assignment-solving assistance. Utilizing Kotlin and Jetpack Compose, Real-time OCR using ML kit.	<a href="https://github.com/Deegayua/SnapLearn">https://github.com/Deegayua/SnapLearn</a>
2024	<b>Deep Learning Mini Projects</b> A series of mini deep learning projects: <ol style="list-style-type: none"><li>Sinhala character recognition deep learning model training image classification using RNN. (<a href="https://github.com/Deegayua/Deep-Learning-Mini-Project-01">https://github.com/Deegayua/Deep-Learning-Mini-Project-01</a>)</li><li>Stock Price Prediction using LSTM Recurrent Neural Networks. (<a href="https://github.com/Deegayua/Deep-Learning-Mini-Project-02">https://github.com/Deegayua/Deep-Learning-Mini-Project-02</a>)</li><li>English to Sinhala translation model using transformers. (<a href="https://github.com/Deegayua/Deep-Learning-Mini-Project-03">https://github.com/Deegayua/Deep-Learning-Mini-Project-03</a>)</li></ol>	<a href="https://github.com/Deegayua">https://github.com/Deegayua</a>
2021	<b>Portfolio Website</b> Dynamic portfolio website showcasing skills and projects built using HTML, CSS, and JavaScript only.	<a href="https://deeghayu.netlify.app">https://deeghayu.netlify.app</a>

TECHNICAL SKILLS

**Languages:**  
C++, Python, JavaScript, HTML, CSS

**Frameworks/Tools:**  
React, Git, GitHub, VSCode, PyCharm, WebSockets,

**Specialties:**  
Web Development, IoT Systems, Embedded Systems, Real-Time Systems, QR Technology, Algorithm Optimization

ACHIEVEMENTS AND AWARDS		
02/2024	<b>Participation - UWU ROBOT BATTLES 2.0: Death Race (2024)</b> Competed in the UWU Robot Battles 2.0: Death Race, demonstrating robotics skills and collaborative spirit.	Uva Wellassa University, Sri Lanka
11/2023	<b>Second Runner Up - Sky of Icarus Custom-Drone competition - 2023</b> Achieved second runner-up in the Sky of Icarus 2023 drone competition, demonstrating expertise in drone technology and teamwork.	IESL Young Member Section, South Eastern University, Sri Lanka
04/2022	<b>Best of the Class   Final Year   School</b> Attained Class Proficiency in final year of high school, underscoring commitment to academic excellence.	Gurukula National College, Kelaniya
11/2018	<b>Merit Certification   Open Day Robotic Competition</b> Achieved a Merit Certification at the District Level Open Day Robotic Competition.	NERDC, Sri Lanka
06/2018	<b>Participation   SLIIT GAMEFEST 2K18</b> Showcased involvement in SLIIT GAMEFEST 2K18, a game development competition.	SLIIT
LEADERSHIP AND TEAMWORK		
2021 - 2023	<b>Steam - VidE</b> Event Coordinator, VidE - 21/22, Head of Photography 20/21, Member 19/20	Media Unit, FOS, UOK
2022 - 2023	<b>Inventors Club</b> Vice President 21/22, Junior Treasurer 20/21	University of Kelaniya
2022 - 2023	<b>E-Waste Project</b> Junior Electronics Lead 20/21, Electronics Lead 21/22	Electronic Development and Innovation Center   University of Kelaniya
2021 - 2022	<b>Astronomy and Space Science Association</b> Co-Coordinator 20/21, Main Web Developer 19/20 and 20/21, Committee Member 19/20	University of Kelaniya
2022	<b>Statistic and Computer Science Students' Association</b> Editor 20/21	University of Kelaniya
LANGUAGES		
Sinhala - Native, English - Intermediate, German - Beginners,		

REFERENCE	
<b>Professor A. L. A. K. Ranaweera</b> Professor Department of Physics and Electronics, University of Kelaniya arunaran@kln.ac.lk +94 (0)77 7 179 201	<b>Dr. J. A. Seneviratne</b> Senior Lecturer (Grade II) Department of Physics and Electronics, University of Kelaniya jehans@kln.ac.lk +94 (0)71 822 6117

Deeghayu Suwahas Adhikari

15/10/2024