

# UPEKA DILUKSHA

Bsc (Hons.) Computer Engineering Undergraduate

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## SUMMARY OF QUALIFICATIONS

- Experience in software development, machine learning, and electronic systems, with a keen interest in AI, Machine Learning, Data Science, and intuitive solution development.
- Strong team collaboration skills, contributing effectively to projects and achieving shared goals through technical expertise and teamwork.
- Passionate about teaching and public speaking, with experience addressing 30+ seminars for O/L and A/L students to share knowledge and inspire academic excellence.

## EDUCATION

<b>University of Ruhuna – Faculty of Engineering</b>	<b>2021 - Present</b>
<i>BSc (Hons.) in Engineering</i>	<i>Expected Graduation, Feb 2026</i>
Computer Engineering Department	Current G.P.A 3.20/4.0
<b>Mahinda College Galle</b>	<b>2006 – 2019</b>
G.C.E. (A/L) Exam AAB - <i>District Rank 126</i>	Physical Science Stream

## PROJECT EXPERIENCE

<b>Electric Vehicle Charging Booking System</b> <i>(Back-end Developer)</i>	<b>Full Stack Application</b> 2024 – 2025
• Developed and optimized backend for a platform enabling real-time booking and management of EV charging stations, featuring scheduling, payment integration, and availability tracking.	
• Technologies Used: Node.js, Express.js, MongoDB, React Native, Docker, Git, OAuth (Google), Expo.	
• Tools & Practices: JIRA (Sprint Management), Confluence (Documentation)	
<b>Real-time Chat App - Live Talk   <u>LiveTalk</u></b>	<b>2024   Web Application</b>
• A dynamic real-time messaging application designed to offer seamless communication with features like instant messaging, user authentication, and message history.	
• Technologies Used: Node.js, Express.js, Socket.io, MongoDB, React, JWT, Docker, Git.	
<b>Mushroom Classification   <u>Repo</u></b>	<b>2024   Machine Learning Project</b>
• Built machine learning models for mushroom classification, achieving 90.63% accuracy with a Decision Tree and 96.93% accuracy with a Random Forest.	
• Focused on data preprocessing, handling categorical variables, and optimizing model performance through hyperparameter tuning.	
• Technologies Used: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Google Colab.	
<b>Multi-Threaded Proxy Web Server   <u>Repo</u></b>	<b>2025 Jan   Network Programming Project</b>
• Developed a multi-threaded proxy server with HTTPS tunnelling, real-time traffic monitoring, and GUI using PyQt6.	
• Technologies Used: Python, PyQt6, Socket Programming, Threading, SSL/TLS, TCP/IP.	

## Hostel Management System

2024 | Database Systems Project

- Developed a database system for managing hostel operations, including student allocation, fee management, and staff administration.
- Optimized database performance by applying indexing strategies and query tuning techniques.
- Implemented complex SQL queries, including joins, nested queries, and set operations, to facilitate efficient data retrieval.
- Technologies Used: MySQL, SQL, ER Diagrams, UML, Query Optimization, Indexing, Database Transactions.

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## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript (ES6+), C, C++, Verilog
- **Web Development:** HTML, CSS, React.js, Node.js, Express.js, TailwindCSS.
- **Database Management:** MongoDB, MySQL.
- **Version Control:** Git, Github.
- **Project Management:** JIRA, Confluence.
- **Tools:** - Figma, Visual Studio, Inteliji Idea, VSCode, Eclipse, Postman, Jupyter.

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## LICENSES & CERTIFICATIONS

- Supervised Machine Learning Issued by DeepLearning.AI
- Data Analysis Using Python Issued by IBM
- Machine Learning with Python Issued by IBM
- Introduction to Programming Using Java Issued by Sololearn
- Introduction to SQL Issued by Sololearn
- SQL intermediate Issued by Sololearn
- UI/UX for beginners Issued by Great Learning

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## EXPERIENCE

### Editorial Committee Lead

2024 Jan – 2024 Dec

*IEEE Student Branch University of Ruhuna*

### Project Coordinator – “Ganitha Sawiya”

2022 Jan – 2022 Dec

*Sasnka Sansada Foundation*

### Logistics Team Lead – Eminence 3.0

2023 Sep

*WIE, Affinity Group, IEEE Student Branch University of Ruhuna*

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## REFERENCES

Dr. Iromi Ranaweera,  
Senior Lecturer,  
Dept. of Electrical and Information Engineering,  
Faculty of Engineering,  
University of Ruhuna  
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