

UPEKA DILUKSHA

Bsc (Hons.) Computer Engineering Undergraduate

(+94) 77-5922852 | dilukshaupeka@gmail.com | LinkedIn: upeka-diluksha
Github: upeka-diluksha | Portfolio: Diluksha.dev

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

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

PROJECT EXPERIENCE

Electric Vehicle Charging Booking System <i>(Back-end Developer)</i>	Full Stack Application 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)	
Real-time Chat App - Live Talk <u>LiveTalk</u>	2024 Web Application
• 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.	
Mushroom Classification <u>Repo</u>	2024 Machine Learning Project
• 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.	
Multi-Threaded Proxy Web Server <u>Repo</u>	2025 Jan Network Programming Project
• 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.

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.

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

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

REFERENCES

Dr. Iromi Ranaweera,
Senior Lecturer,
Dept. of Electrical and Information Engineering,
Faculty of Engineering,
University of Ruhuna
iromi@eie.ruh.ac.lk.

Dr. Prabath Weerasinghe,
Senior Lecturer,
Dept. of Electrical and Information Engineering,
Faculty of Engineering,
University of Ruhuna
weera@eie.ruh.ac.lk