

# Bhashitha Mendis

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**Portfolio:** [bhashitha99.github.io](https://bhashitha99.github.io)



## Summary

Motivated Computer Science Engineering undergraduate specializing in Data Science Engineering. Skilled in creating scalable web applications, optimizing user experiences, and integrating modern technologies. Proficient in software development, data analysis, and applying Machine Learning and AI techniques. Passionate about designing innovative solutions to tackle real-world challenges while delivering value-driven and efficient systems.


## Education

<b>University of Moratuwa</b> BSc Eng (Hons) in Computer Science and Engineering Specializing in Data Science Engineering	Moratuwa, Sri Lanka Mar 2021 – Present
<b>G/Dharmasoka College</b> Primary and Secondary Education G.C.E A/L Examination: 3A Passes (Physical Science Stream)   Island Rank : 99 G.C.E O/L Examination: 7A , 1B, 1C	Ambalangoda, Sri Lanka 2005 – 2019 2019 2015

## Experience

<b>Intern - Software Engineer</b> Kingslake Software Company	Jan 2024 – Jul 2024 (6 months)
<ul style="list-style-type: none"><li>Worked 3 months as a <b>Full-Stack Developer</b> and 3 months as a <b>Data Science Engineer</b>, contributing to enterprise-grade software projects across AI, backend, frontend, and web development domains.</li><li><b>Engineered and maintained core microservices</b> in an HR Management System to automate employee records, payroll, and attendance workflows using the Agile methodology; collaborated with cross-functional teams to ensure timely sprint deliveries.</li><li><b>Built and optimized a parcel tracking system</b> for logistics, enhancing transparency and traceability with real-time updates and streamlined handover workflows.</li><li><b>Designed and developed a machine learning based garment sketch detection system</b>, leveraging CNN and computer vision techniques to identify and retrieve visually similar designs with high accuracy.</li><li>Technologies used: <b>Python, Flask, ReactJS, Node.js, MongoDB, MySQL, Docker, and REST APIs.</b></li></ul>	

## Projects

<b>GNN for Bus Arrival Time Forecasting across multiple routes</b>   Research Project	May 2024 – Ongoing
<ul style="list-style-type: none"><li>Designed and developed a robust and accurate predictive model and web application for forecasting bus arrival times in urban cities. The solution efficiently captures spatial and temporal dependencies across multiple bus routes by integrating Graph Neural Networks (GNNs) with Gated Recurrent Units (GRUs), enabling real-time, route-aware predictions for improved public transit management.</li><li>Technologies: <b>Python, Pytorch, ReactJS</b></li></ul>	
<b>PetCare Mobile Application</b> 	Mar 2025 - Apr 2025
<ul style="list-style-type: none"><li>Designed and developed a Flutter-based mobile app integrated with Firebase to support pet health management. Features include vaccination tracking with next-dose reminders, nearby veterinary surgeon locator, daily pet care task scheduling (e.g., meals, hydration), and symptom analysis to predict potential health risks using AI logic.</li><li>Technologies: <b>Flutter, Dart, Firebase Authentication, Firebase Realtime Database</b></li></ul>	
<b>Parcel tracking system</b>   Intern Project at Kingslake	2024 Jun - 2024 Jul
<ul style="list-style-type: none"><li>Developed a web-based tool to track and manage parcels, streamline handovers, and improve transparency through automated notifications and comprehensive documentation, enhancing operational efficiency in logistics workflows.</li><li>Technologies: <b>Angular, HTML, CSS, Node.js, Express.js, MySQL</b></li></ul>	

## Garment Similar Sketch Detection System | Intern Project at Kingslake

Jan 2024 - Apr 2024

- Developed an AI-driven computer vision system using deep learning to retrieve similar clothing sketches. Enabled precise similarity assessments, enhanced style identification, and integrated tools like background removal, supporting efficient design processes and real-time performance in the apparel industry.
- Technologies: **ReactJS, HTML, CSS, Flask, Python, MongoDB, CNN, Computer vision**

## Real-Time Human Activity Detection

Aug 2023 – Nov 2023

- Designed a scalable computer vision platform for real-time human detection and activity classification from CCTV footage under low-light conditions. Leveraged advanced image processing and machine learning techniques to ensure accurate detection and classification in challenging lighting environments.
- Technologies: **Computer vision, CNN, LSTM, Python, Flask**

## Human Resource Management System

Oct 2022 – Dec 2022

- Developed a Human Resource Management System to automate and streamline HR processes, improving workforce management efficiency, accuracy, and data handling for tasks like employee records, attendance, payroll, and performance tracking.
- Technologies: **PHP, HTML, JavaScript, CSS, MySQL**

## Email Client

Jun 2022 – Aug 2022

- Developed a Java-based command-line email client for sending emails to official and personal recipients. Features included automated birthday greetings, recipient management via file handling, email serialization, and retrieval of sent emails based on specified dates.
- Technologies: **JAVA**

## Technical Skills

- **Programming:** Python, Java, C++, JavaScript, PHP, HTML, CSS
- **Technical Fields:** Full Stack, REST API Development, Mobile Development, Machine Learning, AI, NLP
- **Database Systems:** MySQL, MongoDB, Firestore
- **Tools & Services:** Git and Version Control, GitHub, VS Code, Google Colab, Postman
- **Frameworks & Libraries:** Flask, ReactJS, Node.js, Express.js, Spring Boot, Flutter, PyTorch, Pandas

## Courses and Certifications

- Machine Learning for Natural Language Processing - AWS Academy
- Feature Engineering by Kaggle
- Time series forecasting by Kaggle

## Highlights

- uMORA mathematics competition: merit award | 2020
- Director of Public Relations, Drama Society - University Of Moratuwa
- Project Demonstrator at EXMO 2023 – Presented and showcased engineering projects at the University of Moratuwa's annual exhibition.
- Seminar Instructor (2023) – Delivered technical sessions at the Electronic Skill Enhancement Workshop for ICT teachers in the Ambalangoda Division.
- Volunteer Seminar Instructor – Conducted educational seminars for students during the "Soyuru Sathkara 2023" community outreach program.

## References

### Dr. Thanuja D. Ambegoda

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