

Deshitha Gallage

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Education

University of Moratuwa

Bachelor of Science in Computer Science & Engineering (CGPA: 3.8 / 4.0)

Expected Aug 2026

Colombo, Sri Lanka

- **Relevant Coursework:** Machine Learning, Data Science, Linear Algebra, Probability & Statistics, Deep Learning, Natural Language Processing
- **Dean's List:** Semesters 2, 4, 6, and 7

Rahula College

G.C.E. Advanced Level (Z-score: 2.5302)

2018 – 2020

Matara, Sri Lanka

- **Stream:** Physical Science
- **Achievements:** Distinction passes in Combined Mathematics, Physics, and Chemistry

Experience

Tortil Inc.

Trainee Software Engineer (Full-time Internship)

Dec 2024 – Nov 2025

[Remote]

- Developed web applications using Next.js for the frontend and Spring Boot for the backend, integrated with PostgreSQL.
- Contributed to cross-platform mobile application development for iOS and Android using React Native.
- Gained hands-on industry experience contributing to enterprise-grade software solutions.

Associate Software Engineer (Part-time)

- Contributed to full-stack and mobile application development across production systems.
- Integrated agentic AI workflows to automate report generation and internal business processes.

Nexster

Backend Developer

Jan 2024 – Jun 2024

Colombo, Sri Lanka

- Contributed to a social media network project designed for undergraduates of the University of Moratuwa.
- 6-month role for a non-profit organization, with a lighter workload.
- Developed backend API services and worked with ArangoDB graph database.

Projects

Brain Activity Localization with Deep Learning [Final Year Project – Ongoing] | *Deep Learning, CNN, Transformer, EEG*

- Addressing the EEG inverse problem by developing a framework to localize brain activity sources from EEG signals.
- Combining CNN-based spatial feature extraction with Transformer-based temporal modeling to capture both spatial and temporal EEG patterns.
- Designing a lightweight synthetic EEG data generation pipeline and using MLflow for experiment tracking and hyperparameter management.

Multi-Scale Temporal Pattern Learning [Unpublished] | *Time Series, Machine Learning, PatchTST*

- Enhancing the PatchTST model for improved time series forecasting performance.
- Integrating selective multi-scale patching to capture temporal patterns at different resolutions.

Urban ETA - Bus Arrival Time Prediction System | *Spacetimeformer, React.js, Data Preprocessing*

- Utilized a predefined spatio-temporal transformer model (Spacetimeformer)
- Contributed to data preprocessing and model training, and assisted in developing the dashboard UI using React for monitoring predictions, ensuring accurate and reliable results.

Book The Doc - Doctor Appointment Management Platform 🔄 | *MongoDB, Express.js, React.js, Node.js*

- A platform for scheduling and managing doctor appointments.
- Contributed to building and maintaining the React front end, ensuring a seamless user experience.
- Managed the overall project development, coordinating various aspects of the platform's functionality.

IPL Data Analysis & 2025 Winner Prediction Model | *React.js, Flask, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn*

- Performed comprehensive data analysis on IPL data from 2008 to 2024.
- Trained a model from scratch and fine-tuned for match outcome predictions.
- Deployed the model with a web application for user interaction and visualization.
- This was an individual project, showcasing my ability to manage all aspects of development from data analysis to web implementation.

Human Resource Management System | *React.js, Express.js, Node.js, MySQL*

- Led the development of the frontend using React.js, creating user interfaces for employee management and salary reporting.
- Developed the backend using JavaScript and Node.js, integrating with MySQL for data storage and retrieval.
- Managed the MySQL database, designing schemas for storing employee data, leave management, and report generation.
- Implemented user authentication and authorization to ensure secure access control and data protection.

Mora UXplore 2.0 Official Website | *React.js, JavaScript*

- Developed the timeline component on the landing page, enhancing user experience by providing a clear, interactive visual representation of key events.
- Implemented the frontend development for the registration and login pages, ensuring a responsive and user-friendly interface.

Technical Skills

Languages: Python, Java, C++, Go, JavaScript, TypeScript, SQL

Technologies: React.js, Next.js, Node.js, Express.js, TensorFlow, PyTorch, React Native, Expo, Spring Boot, Fast API

Concepts: Machine Learning, Data Science, Artificial Intelligence, Neural Networks, API, Database Normalization, Cloud Computing, Backend Development, Frontend Development

Achievements

- **Predicta v1.0:** Secured 7th place out of 100+ teams.
- **IEEEExtreme 17.0:** Achieved a global rank of 828 and country rank of 64.
- **ACES Coders v10.0:** Secured 37th place among 100+ teams.
- **Techno Hackathon, Xtreme 2023:** Selected as finalists and attained 7th place.
- **Crack the Code Hackathon - Enigma 24':** Selected as finalists and secured 10th place.

Volunteering

Program & Delivery Vice Chair - IEEE SL ChallengeSphere <i>Science & Technology</i>	2025
Organizing Committee Member - IEEE SL ChallengeSphere <i>Science & Technology</i>	2024
Organizing Committee Member - SLIoT Challenge 2023 <i>Science & Technology</i>	2023 - 2024
Company Coordinator - Careers Day 2024 <i>Education</i>	Jan 2024
Web Development Committee Member - Mora UXplore 2.0 <i>Science & Technology</i>	2024
Volunteer - IoT Workshop for School Teachers <i>Education</i>	Dec 2023
Marketing Committee Member - EXMO 2023 <i>Science & Technology</i>	Jul 2023

References

Dr. Charith Chitraranjan

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University of Moratuwa
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Dr. Uthayasanker Thayasivam

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