

Janeesha Wickramasinghe

Address: No. 189, Gunananda Mw, Kotuwegoda, Rajagiriya. 📞 +94 77 621 2186
✉ janeesha.21@cse.mrt.ac.lk 🌐 [Janeesha Wickramasinghe](#) 📺 [janeeshaJ2001](#) 📺 [janeesha](#)

EDUCATION

University of Moratuwa

Bachelor of Science in Computer Science & Engineering

2022 – 2026

- **CGPA:** 3.52 / 4.00, Specializing in Data science & Engineering,

Visakha Vidyalaya, Colombo 05

G.C.E. Advanced Level Examination, Physical Science Stream

2018 – 2020

- **Z-Score:** 2.4283, Combined Mathematics (A), Physics (A), Chemistry (A)

PROJECTS

CardioCare - Automated Cardiac Disease Detector 🔗

Aug. 2024 – Present

- For my ongoing semester 5 project, our team is building a classification model for cardiac arrhythmias using ECG time series data.
- **Tech Stack:** TensorFlow, Scikit-Learn, Signal Processing, Streamlit
- **Contribution:** Implement the deep learning models combining a 1-D CNN with Bi-LSTM model and train them.

Segmentation of Brain Tumors from MRI Using Deep Learning 🔗

Aug. 2024

- Implemented **U-Net in TensorFlow** to perform brain tumor segmentation from MRI scans, applying advanced **image preprocessing** methods and utilized transfer learning with **VGG16**.
- This individual project focuses on training a model to accurately predict the presence of tumors and improve diagnostic capabilities.
- **Tech Stack:** TensorFlow, Transfer Learning, Image preprocessing

HyperTalk 🔗

Feb 2024 – July 2024

- For Idealize 2024 - an all-island mobile/web app competition, our team developed a real time bi-directional sign language translation app for deaf and speech-impaired community.
- **Tech Stack:** Tensor Flow | Pytorch | Flutter | Node | Firebase
- **Contribution:** Built the app frontend and implemented user authentication and authorization.

Human Resource Management System 🔗

July 2023 – Oct 2023

- As part of the Database module, our team developed a full-stack web application for user management, security, storing employee data, managing leave requests, and generating reports.
- **Tech Stack:** React | Node | Material UI | MySQL
- **Contribution:** Implemented the front-end of the application and managed the project.

Flower Exchange Trader Application 🔗

Feb 2024

- Implemented an optimized **C++** trading system for a flower exchange, processing orders and generating execution reports through direct function calls, bypassing socket-based architecture.
- **Contribution:** Utilized multithreading, efficient data structures, and OOP concepts to enhance performance.

EXPERIENCE

Mora Lenz - Web team member

Feb 2023 - Aug 2023

- Contributed to the development and maintenance of the Mora Lenz, the Mass Media club's website at the University of Moratuwa.

SKILLS

Programming Languages: Python, Java, C++, HTML, CSS, JavaScript, Dart

Libraries: TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn

Frameworks: React, Node, Express, Flutter

Database: MySQL, Firebase

Interests: Natural Language Processing, Computer Vision, Cloud Computing, Women in Tech

EXTRACURRICULAR ACTIVITIES

Co-Chair - Enigma'24 | Mathematics Society Dec. 2023 – Mar. 2024

- **Co-chaired** Enigma'24, the first mathematical hackathon at the University of Moratuwa, featuring 8 webinars, an online preliminary round with 200+ teams, and an on-campus final round.

Volunteer - IoT Workshop Dec. 2023

- Volunteered for an IoT workshop designed for school teachers, offering hands-on training in microcontrollers, IoT fundamentals, and introductory artificial intelligence concepts.

Organizing Committee Member - Voice Donation Camp Apr. 2023

- Contributed to maintaining the e-library for Manusath Handa project, organized by the Rotaract Club of the University of Moratuwa.

AWARDS

Predicta 1.0 - Champion

- All-island AI Prediction **Kaggle** Competition organized by the IEEE Student Branch of UoP.
- Models Used: Hybrid model combining XGBoost, Sinusoidal Regressor, and ensemble techniques.
- Achieved a **0.92** accuracy score on the public leaderboard out of 80+ teams.

Evolution AI Islandwide Ideathon - 2 nd Runner Up

SLESA Future Founder - Finalist

- Our team representing University of Moratuwa emerged as **Finalists**, at Young Entrepreneurs Bootcamp hosted by Sri Lankan Engineers in South Australia (SLESA).

IDEALIZE - Semi Finalist On going

- An all-island mobile/web app competition organized by AIESEC Colombo South.

InspiHER{Tech} V2.0 - Finalist

- Successfully completed all phases in MATLAB coding, data analysis, and a final hackathon.

Codefest Designathon | Tertiary Category - Merit Awards

Buddhi Prabodaya - 1 st Runner Up

- An all-Island Mathematics Quiz competition - School Category organized by Educational Dep.

CERTIFICATIONS

Machine Learning Foundations on AWS Academy by AWS

Machine Learning Specialization on Coursera by DeepLearning.AI (3 course specialization)

Deep Learning Specialization on Coursera by DeepLearning.AI On going

REFEREES

Dr. Uthayasanker Thayasivam

Head of Department, Senior Lecturer
Department of Computer Science and Engineering
University of Moratuwa, Sri Lanka.
rtuthaya@cse.mrt.ac.lk

Prof. Dulani Meedeniya

Senior Lecturer
Department of Computer Science and Engineering
University of Moratuwa, Sri Lanka.
dulanim@cse.mrt.ac.lk