# MINUKA JAYAWARDANA

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Linkedin Profile | Github Profile

## SUMMARY

AI and Data Science enthusiast skilled in full-stack development, database design, and algorithm optimization using Python, Java, and JavaScript, with a disciplined and analytical approach supported by strong leadership experience across academics, sports, and music.

## EDUCATION

**BSc (Hons) Artificial Intelligence & Data Science | Informatics Institute of Technology (IIT) | Affiliated to Robert Gordon University, Scotland | September 2024 - Present**

- Modules: Programming Fundamentals, Data Structures & Algorithms, Database Systems, Computer Systems Fundamentals, Web Technology, Advanced Mathematics, Object-Oriented Programming

**Advanced Level Examination | Royal College, Colombo 07 | January 2024**

- Completed A/L Examination under the Physical + ICT Stream

**Ordinary Level Examination | Royal College, Colombo 07 | March 2021**

- Completed O/L Examination

**Scholarship to participate for the Youth Camp in Germany | August 2019**

- Awarded a scholarship to visit Germany and participate for the Youth camp

## PROJECTS

**Real-Time Multi-Referee Decision System for Powerlifting Event** ..................................................... 2025

- Designed a multi-referee judging platform with three synchronized interfaces, real-time vote aggregation, and event-level timing to validate lifts during the World Powerlifting Championship'25.

**Customer Churn Prediction System (Machine Learning)** ..................................................... 2025

- Created a machine learning–based customer churn prediction system using feature engineering, Neural Networks, and Decision Trees, with comparative model evaluation and ethical analysis.

**TeamMate: Intelligent Team Formation System (Java)** ..................................................... 2025

- Developed an object-oriented Java system that forms balanced teams using personality classification, role matching, file handling, exception management, and concurrent processing.

**Smart Tea Estate System (Data Science Group Project - In Progress)** ..................................................... 2025

- Developing a Smart Tea Estate System integrating weather, soil, and fertilizer datasets to compute optimal harvest periods and generate labour requirement predictions using machine-learning-based analysis.

**Interoperable POS and Tax Processing System (Python & JavaFX)** ..................................................... 2024

- Implemented a dual-application system with Python CLI for sales management and JavaFX GUI for tax validation featuring checksum algorithms, data interoperability, and transaction integrity verification.

**Priority-Based Task Management System (Java Console Application)** ..................................................... 2024

- Built a Java CLI application with custom linked list, stack-based undo, FIFO queue processing, priority filtering, and color-coded UI for efficient task workflow management.

**Healthcare Database System Design (Golden Valley Hospital)** ..................................................... 2024

- Designed an EER model for patient management, appointment scheduling, treatment tracking, and multi-method payment processing with specialized in-patient/out-patient relationships and resource optimization.

**Interactive Restaurant Web Application (Curry and Co.)** ..................................................... 2024

- Developed a dynamic restaurant website with JavaScript form validation, XML-based reviews, category filtering, and responsive design following accessibility standards.

## EXTRA/CO – CURRICULAR ACTIVITIES

**Orchestra & Choir:**
- Served as Principal Oboist with leading Sri Lankan orchestras including the Wind Orchestra of Sri Lanka (2017–Present), Gustav Mahler Society of Colombo (2018–Present), National Unity Orchestra (2019–Present), and National Youth Orchestra (2016–2024); Played solo works and toured internationally twice to India.
- Performed with the Royal College Western Orchestra (2016–2023) and Western Choir (2015–2022), achieving multiple national and provincial awards.
- Won Level 1 Gold Diploma at the 04th Asia Pacific Choir Games (Open Division) – Youth Category (2017).
- Won Gold Medal at the 04th Asia Pacific Choir Games – Champions Competition (2017).

**Rifle Shooting:**
- Endowed with the Sri Lanka Schools Shooting Sports Association Colours insignia for Break Barrel and Air Pistol - 2022,2023 & 2024 and School Colours in Air Pistol Shooting – 2022,2023 & 2024
- Qualified as a Sharpshooter for four times while getting National 3rd Place for the years 2022,2023
- Captained the Royal College Air Rifle Shooting team - 2022
- Represented Royal College Shooting "A Team" from 2020 - 2023

**Squash:**
- Represented the Royal College Squash team from 2013 - 2017

**Leadership Positions at Royal College:**
- Serving as Advisory Member of the Royal College Union (2025 – Present)
- Served as Senior Prefect (2023/24), Senior Steward (2022), Junior Prefect (2018) & Primary Prefect (2014)
- Led initiatives as Senior Board Member of the Western Music Society (2019 – 2023)
- Appointed as Assistant Chairman of the Advanced English Skills Improvement Unit (2022)
- Appointed as Assistant Secretary of the Non-Addict Movement (2022)
- Chaired projects for the Advanced English Skills Improvement Unit and Non-Addict Movement (2021/22)

## CERTIFICATIONS

- Artificial Intelligence & Machine Learning - IBM
- IEEE Xtreme (2025) Programming Competition - Participant
- OctWave 2.0 (2025) – AI/ML Initiative - Participant (IEEE IAS Student Branch)
- Aftermath (2025): Checkpoint Hunters – Winner
- Microsoft Azure AI Essentials Professional Certificate - Microsoft and LinkedIn
- Generative AI: Introduction to large language Models - Linkedin Learning
- Azure Machine Learning Development - Linkedin Learning

## TECHNICAL SKILLS

- Python
- Java
- JavaScript
- HTML
- CSS
- Database design
- Algorithm Optimization
- SQL
- Figma

## REFERENCES

**Mrs. Uvini Abeyasinghe**
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