Nimesh Kavindu Rathnayake

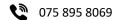📞 075 895 8069   ✉ nimesh.k.rathnayake@gmail.com   in www.linkedin.com/in/nimeshkavindu

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About Me

A results-oriented, final-year Information Technology undergraduate from the University of Moratuwa, combining a strong foundation in full-stack application development with a passion for data analytics and machine learning. My project experience demonstrates a practical ability to build data-driven systems from the ground up from engineering SQL databases to developing predictive forecasting models and user-facing dashboards. I am eager to apply this end-to-end technical perspective to understand reporting needs, design effective data pipelines, and deliver clear, actionable insights.

Education

Bachelor of Information Technology (Final Semester)
University of Moratuwa, Katubedda.
Sri Lanka.
CGPA 3.23
2023 – 2026

GCE A/L Examination, Biological Science
Agrabodhi College, Kantale.
2021
Biology: C | Chemistry: C | Physics: C

Experience

C# & Java Tutor (Freelance)
2023 – Present

- Provided one-on-one and group tutoring for C# and Java, covering OOP, data structures, algorithms, GUI development, and project guidance.

- Helped students build real-world applications including CRUD systems, login systems, and small desktop projects.

- Focused on simplifying complex programming concepts and improving students' practical coding skills.

Certifications

Machine Learning by Columbia University on Columbia Plus.

AI for Business by Columbia University on Columbia Plus.

Full Stack Software Developer Professional Certificate by IBM on Coursera.

Google IT Support Professional Certificate by Google on Coursera.

Improve Your English Communication Skills by Georgia Institute of Technology on Coursera.

AI For Everyone by DeepLeararning.AI on Coursera.

C# Certificate by Hackerrank.

Microsoft Office 365 Fundamentals by Microsoft on Coursera.

Fundamentals of Graphic Design by California Institute of the Arts on Coursera.

Being a researcher (in Information Science and Technology) by Politecnico di Milano on Coursera.

Introduction to Psychology by University of Toronto on Coursera.

Technical Skills

Programming Languages: C#, Java, JavaScript, PHP, Python

Web Development: Laravel, ASP.NET Core, Node.js, React

Databases: SQL Server, MySQL, PostgreSQL, MongoDB

Version Control: Git, GitHub, GitLab

Software Development: Object-Oriented Programming (OOP), RESTful APIs, Microservices, MVC Architecture

Cloud & DevOps: Docker, Kubernetes, CI/CD Pipelines, AWS (Basic), Terraform (Basic**)**

Testing & Quality Assurance: Unit Testing, Selenium, JMeter, Postman

Machine Learning & Data Science: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, NLTK, Transformers (BERT), TensorFlow Lite

Projects

TeaCare Mobile Application (Ongoing) *(Flutter, Python, TensorFlow)*

- Designing and developing a mobile application that detects tea plant diseases using an on-device CNN model trained with TensorFlow.
- Integrating TensorFlow Lite for real-time, offline disease identification through leaf image analysis.
- Implementing Firebase for user authentication, data storage, and app analytics.
- Aims to support local tea farmers with instant diagnosis, treatment advice, and preventive care insights.

Product Recommender System (Python, Pandas, scikit-learn)

- Developed a hybrid recommender for an e-commerce platform, combining collaborative filtering (user-item) and content-based filtering (item similarity).
- Utilized scikit-learn (TF-IDF) for content analysis and performed matrix factorization for collaborative filtering.

CeylonCraft E-commerce Website *(Laravel, Tailwind CSS, MySQL)*

- Developed an **e-commerce platform** for a local business.
- Implemented **cart, checkout, and admin panel** for inventory management.

Gym Store E-commerce Website (React, Vue, HTML, CSS, JavaScript)

- Built a complete e-commerce platform for selling gym and fitness equipment.
- Implemented user authentication, cart, checkout, and admin panel for product management.

Blogging Application *(Laravel, MySQL, Vue.js)*

- Built a **multi-user blogging platform** with authentication and role-based access.
- Integrated a **content management system** for seamless blog posting.

E-Learning Management System *(PHP, MySQL, JavaScript)*

- Designed a **course and user management system** for online education.
- Enabled **student progress tracking** and **online assessments**.

Hospital Management System

- A C# and SQL-based system for managing hospital operations such as patient and staff management, appointment scheduling, and billing.

ASP.NET MVC Blog Application

- A blog platform built using ASP.NET MVC for CRUD operations on posts and user authentication.
- Technologies: ASP.NET MVC, Entity Framework, SQL Server, Razor Pages.

Employee Portal System

- An internal portal for companies to manage employee records, tasks, and announcements.
- Features: Role-based access, employee directory, task assignments, and announcements dashboard.
- Technologies: C#, ASP.NET Core, Entity Framework, Bootstrap, SQL Server.