Nadun Sandanayaka

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Profile Summary

A passionate full-stack developer with a strong focus on building scalable, data-driven applications and leveraging cloud technologies to solve real-world challenges. With experience in deploying real-time solutions, enhancing system performance, and integrating machine learning, I am excited about the opportunity to contribute to innovative projects that push the boundaries of automation, connectivity, and intelligent data solutions.

Education

Bachelor of Science in Information Systems   **2023 – present**

University of Colombo School of Computing (UCSC)

Relevant Coursework: Machine Learning, Data Structures & Algorithms, Software Engineering, Database Management, Web Development, System Analysis & Design, Computer Networks, Software Quality Assurance

Technical Skills

- **Programming Languages:** Python, JavaScript, Java, PHP

- **Machine Learning & Data Science:** TensorFlow, Scikit-learn, Keras, Pandas, NumPy

- **Web Development:** React, Next.js, Node.js, Express.js, HTML/CSS

- **Databases:** PostgreSQL, MongoDB, MySQL

- **Cloud & DevOps:** AWS, Docker, Apache Airflow

- **AI & NLP:** Ollama, LangChain, Natural Language Processing

- **Tools & Platforms:** Git, GitHub, Flask, MVC Frameworks

Achievements

- **Grand finale:** InnovateX by Zebra Technologies

- **2nd Runner-Up:** INNOVA Ideathon, IEEE Computer Society, Wayamba University

- **Semi Finalist:** CodeSprint X, IIT

- **Semi Finalist:** Idealize '25, University of Moratuwa

Projects

PathMentor - Personalized Learning Platform   GitHub

AI-powered platform providing personalized learning path recommendations based on user preferences, goals, and learning styles. Combines data analysis with machine learning algorithms to suggest optimal learning resources and strategies tailored to individual student needs.

Tech Stack: Next.js, Supabase, Python, TensorFlow, Scikit-learn

CV ChatBot with Email   GitHub

A web application built on an MCP server that allows users to interact with their CV, receive automated responses, and send emails directly from the platform. Deployed on Vercel (frontend) and Railway (backend).

Tech Stack: React, Node.js, Express.js, Railway, Vercel

BrandBoost - Influencer Marketing Platform   GitHub

Comprehensive platform connecting social media influencers with business owners for seamless product promotion.Developed as a collaborative second-year project with focus on user experience and system reliability.

Tech Stack: PHP (Custom MVC Framework), MySQL, HTML, CSS, JavaScript

Idealize-2025 Datathon - Cancer Prediction Model   GitHub

Machine learning model for cancer outcome prediction using medical datasets. Achieved 6th place in ML category among 91 competing teams. Project involved comprehensive feature engineering, advanced model training techniques, and rigorous cross-validation methodologies.

Tech Stack: Python, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib

Push Notification Service   GitHub

Scalable real-time notification service deployed on AWS for businesses and developers. Supports both web and mobile platforms with high availability architecture. Designed with efficiency and reliability in mind, enabling seamless user engagement across multiple channels.

Tech Stack: Node.js, Express.js, Docker, AWS

Learning Projects

Langchain Project   GitHub

A hands-on project exploring Langchain for building AI-driven natural language applications.

Streamlit Cancer Prediction   GitHub

A cancer prediction model deployed using Streamlit for visualizations and real-time predictions.

Airflow ETL Pipeline Project   GitHub

ETL pipeline built with Apache Airflow to automate data extraction, transformation, and loading tasks.

Certifications

Machine Learning with Python   **IBM**

Credential ID: 21cba267-792b-4472-8a5a-605ea3807e00

View Certificate

Introduction to the Internet of Things and Embedded Systems   **IBM**

Credential ID: 21cba267-792b-4472-8a5a-605ea3807e00

View Certificate

References

Mrs. Sanduni Thrimahavithana

Lecturer, Department of Information Systems Engineering

University of Colombo School of Computing

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