

SUMUDU RATNAYAKE

ASPIRING ML ENGINEER INTERN

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Objective

Computer Science undergraduate with a strong foundation in building and analyzing AI-driven and machine learning systems. Proven ability in using Python, deep learning concepts, and algorithmic problem-solving to develop models for prediction and classification problems. Seeking an ML/AI Engineering internship to apply skills in model development, optimization, and feature engineering.

Experience/Projects

Agentic-Based Hotel Booking Guest Experience Optimizer Nov 2025 - Nov 2025

- Created an Agentic-Based System to analyze booking data and apply optimization algorithms for enhancing the hotel guest experience.

CareSync: Burnout and Wellness Management Jul 2025 - Oct 2025

- Developed a solution that provided an interactive dashboard and mobile integration for monitoring and analyzing wellness data for healthcare professionals.

Telecom Churn Prediction with Genetic Algorithm Aug 2025 - Sep 2025

- Designed a machine learning system to predict customer churn, using a Genetic Algorithm for feature selection.
- Created a Streamlit dashboard for real-time model comparison and visualization.

Audio Denoising System using Deep Learning and PyQt UI Sep 2024 - Oct 2024

- Developed an audio denoising system using autoencoders to remove unwanted noise from audio signals, with a Graphical User Interface (GUI) using PyQt to allow users to upload, process, and visualize the denoised audio.

Education

General Sir John Kotelawala Defence University, BSc (Hons) in Computer Science 2023 - Present

Current GPA: 3.8/4.0

St. Lawrence's Convent Col 06, GCE Advanced Level 2021

Com. Mathematics: C | Physics: C | ICT: B

Skills & abilities

- Programming:** Python, Java, C++
- Frameworks/Libraries:** scikit-learn, TensorFlow, OpenCV, Git, Firebase, Next.js
- Concepts:** AI/ML Fundamentals, Object-Oriented Programming, SDLC, Algorithmic Problem-Solving, Data Preprocessing.
- Soft Skills:** Problem Solving, Analytical Thinking, Communication.
- Certifications:** Microsoft Certified: Azure AI Fundamentals, Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Kaggle Intro to Machine Learning, Neo4j Fundamentals.