

# SUMUDU RATNAYAKE

ASPIRING ML ENGINEER INTERN

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## Objective

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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

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**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

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**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

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- **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.