

# Imesh Rathnayake

Undergraduate | Aspiring Machine Learning Engineer

*imeshrathnayake@hotmail.com | <https://www.linkedin.com/in/imesh-rathnayake>*

*Colombo District, Western Province, 10230, LK | 0764102001*

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Final-year undergraduate at NSBM Green University, Aspiring Machine Learning Engineer with a strong math, algorithms, and Python foundation. Passionate about solving real-world problems through predictive models and AI. Seeking internships/entry-level roles to contribute, learn, and grow in a tech-driven environment.

## Education

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**NSBM Green University**

Aug 2022 - Present

**Bachelor of Science - BS** Computer Science

GPA: 3.8

**Thurstan College**

Jan 2018 - Nov 2020

**GCE Advance Level** Physical Mathematics

Passed

## Work Experience

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**Associate IT Executive**

Oct 2021 - Nov 2022

*eBEYONDS Pvt Ltd | Sri Lanka*

- **Configured and managed data collection pipelines** using Google Analytics and Google Tag Manager, enabling comprehensive performance analysis for client websites.
- **Executed technical SEO strategies**, including URL redirection mapping during site rebuilds to preserve link integrity and search rankings.
- **Optimized website visibility and accessibility** by implementing on-page SEO enhancements and standardizing alternate text for assets.

## Core Skills

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- **Machine Learning & AI:** Scikit-Learn, TensorFlow, Pandas, Jupyter Notebooks, Artificial Neural Networks (ANN), Deep Learning, Regression Analysis, Computer Graphics.
- **Programming Languages:** Python, Java, C, PHP, SQL.
- **Mathematics for ML:** Linear Algebra, Calculus, Numerical Analysis, Applied Mathematics, Derivatives, Probability & Statistics.
- **Development Tools:** Git Version Control, Linux (Ubuntu, Kali).
- **General Tools:** Microsoft Office, Canva, CapCut.
- **Interpersonal Skills:** Collaboration & Teamwork, Effective Communication, Adaptability, Rapid Skill Acquisition, Problem Solving.

## Certificates

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<b>Building Systems with the ChatGPT API</b> DeepLearning.AI	Dec 2025
<b>Calculus for Machine Learning and Data Science</b> Deep Learning AI	Dec 2025
<b>Linear Algebra for Machine Learning and Data Science</b> Deep Learning AI	Dec 2025
<b>Probability &amp; Statistics for Machine Learning &amp; Data Science</b> Deep Learning AI	Ongoing
<b>Foundation For Cybersecurity</b> Google	Dec 2025
<b>Introduction to Git and GitHub</b> Google	Dec 2025

## Projects

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<b>End-to-End California Housing Price Prediction Model</b> Project Overview: Built a Machine Learning model to predict median house values in Californian districts using the 1990 California census dataset. This project was completed as part of the curriculum in " <b>Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow</b> " (3rd Ed). <b>GitHub:</b> <a href="https://github.com/IAU-Rathnayake/AI-and-Machine-learning">https://github.com/IAU-Rathnayake/AI-and-Machine-learning</a>	Dec 2025
<b>AI Chatbot with GitHub Models (Python)</b> Project Overview: This project demonstrates how to build an interactive AI chatbot using Python, Jupyter Notebooks, and the GitHub Models marketplace (via Azure AI). It utilizes the OpenAI Python SDK to communicate with models like gpt-4o (You can use any models), maintaining conversation history for a natural chat experience. <b>GitHub:</b> <a href="https://github.com/IAU-Rathnayake/Chatbot">https://github.com/IAU-Rathnayake/Chatbot</a>	Dec 2025