

Nayani Abepala

Machine Learning Engineer - Intern

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 [Nayani Tharushika](#)

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 [Nayanitharushika](#)



Objective

I'm experienced in Machine Learning, Deep Learning, Data Science, and Artificial Intelligence (AI). I've acquired foundational knowledge in various ML areas and actively engage in projects to apply these techniques to real-world challenges. Motivated and results-driven, I aim to collaborate and contribute to innovative AI-driven solutions and predictive analytics through a Machine Learning internship, making a meaningful impact in the field.

Education

BSc. Honours Degree in Computing & Information Systems

Sabaragamuwa University of Sri Lanka (2022-2026)

R\ Eheliyagoda National College

Secondary Education (Physical Sciences 2011-2019)

Professional Qualifications

Google Cloud Certified - Cloud Digital Leader

2023 Dec [Credentials](#)

Google Cloud Certified - Professional Level

2023 Dec [Credentials](#)

Google Cloud Certified - Associate Cloud Engineer

2023 Dec [Credentials](#)



Technical Skills

Machine Learning Tools & Techniques: scikit-learn, pandas, NumPy, Supervised and Unsupervised Learning Algorithms, Cross-Validation, Hyperparameter Tuning, Feature Engineering, Ensemble Methods, Predictive Analytics, Model Optimization, Data Pipelines

Deep Learning: TensorFlow, Keras, Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Transfer Learning, Natural Language Processing (NLP)

Computer Vision: OpenCV

Programming Languages: Python (Expert), Java (Proficient), C (Intermediate), PHP (Intermediate), RESTful APIs, API Development

Data Management: MySQL, MongoDB

Data Visualization: Matplotlib, Seaborn

Web Technologies: HTML5, CSS3, JavaScript

Cloud Platforms: AWS, Google Cloud Platform (GCP)

Version Control: GitHub

Other Technical Skills: Jupyter Notebook, Docker, CI/CD (Continuous Integration/Continuous Deployment), Agile methodologies

Projects

● Deep Learning Projects

[AgriSage: Deep Learning for Paddy Leaves Disease Classification \(Capstone Project - IV Semester\)](#)

Deep learning model to classify paddy leaf diseases using image data, with IoT integration for real-time monitoring and a chatbot for farmer assistance.

[VitaCam: Vitamin Deficiency Prediction using Deep Learning](#)

Deep learning model predicting vitamin deficiencies (A, B, C, D, E, K) from images, providing a non-invasive tool for early detection and personalized guidance.

● Machine Learning Projects

Baby Birth Weight Predictor: Machine learning model using Ridge Regression to estimate baby birth weight based on maternal health parameters, with a Flask and Bootstrap interface.

Breast Cancer Detection System: Logistic regression model for predicting breast cancer, with standard scaling for accurate data processing and clear probability outcomes.

● Computer Vision Projects

Virtual Drag & Drop System: Developed an interactive computer vision-based system that allows users to drag and drop virtual Interactive system for virtual object manipulation using hand gestures, utilizing OpenCV for real-time hand-tracking.

Human Face Detection System: Real-time face detection model using OpenCV's Haar Cascade Classifier.

● Other Projects

Baby Chart: Digitizing baby growth tracking books

A mobile application designed to replace the traditional Sri Lankan child health record book, streamlining data collection and management for baby care and vaccinations.

SewingStar: Users can easily access tailor shops in their hometown or any other desired location using this.

Awards & Achievements

Golden Ticket Winner - Dialog Innovation Challenge 2024 [Issued by Dialog Axiata & TV Derana]

Winner of Most Popular Category - Tech Narrator Competition 2024 [Issued by IEEE Techverse Sri Lanka]

First Runner Up - Mora UXplore 2.0 (Designathon) [Issued by IEEE Student Branch Affinity Group of University of Moratuwa]

Second Runner Up - Pearl Hack V1.0 Hackathon (Ideathon) 2023 [Issued by IEEE WIE Student Branch Affinity Group of SUSL]

Top 6 Finalists - Aurora (AI Hackathon) 2024 [Issued by Computer Science Association University of Sri Jayawardhanapura]

Top 8 Finalists - FINOVA HACK (Ideathon) 2023 [Issued by Generation Alpha]

Top 10 Finalists - INSL 2023 Provincial Competition (Ideathon) [Issued by IEEE Innovation Nation Sri Lanka]

Top 10 Finalists - PearlHack V2.0 (Designathon) [Issued by IEEE WIE Student Branch Affinity Group of SUSL]

Top 10 Finalists - HACKAHOLICS 6.0 (Ideathon) [Issued by IEEE WIE Student Branch Affinity Group of UCSC]

Top 10 Finalists - OpenHack>2.0 (Designathon) [Issued by Mozilla Campus Club & FOSS Community of IIT]

Top 12 Finalists - Code With WIE [Issued by IEEE WIE Sri Lanka Section]

Top 15 Finalists - CODE BLAST (National Hackathon 2023) [Issued by SLT Mobitel (mspace) & hSenid Mobile]

Experiences

Web Development Internship in CodeAlpha (Jan-Mar 2024)

Machine Learning Internship in CodeAlpha (Mar-Jun 2024)

Web Development Session Instructor STEM UP in the CoderDojo project

Participated in the Dialog Innovation Challenge 3 days Boot Camp

Volunteering & Memberships

Member in IEEE Organization, IEEE Computer Society & IEEE Women in Engineering (2024-2025)

Member & Volunteer in Generation Alpha (2023-2024)

Volunteer in Zero Plastic National Movement (2023-2024)

Cadet Volunteer in St John Ambulance (2013-2024)

Volunteer Graphic Designer in IEEE WIE Student Branch Affinity Group of SUSL (2022-2024)

Volunteer Web Designer in Qwhiz 1.0 (Quiz Competition)

Soft Skills

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| ● Analytical & Problem Solving | ● Logical Thinking | ● Demonstrating Responsibility at Work |
| ● Innovative Thinking | ● Written Skills | ● Strategic Thinking |
| ● Leadership Skills | ● Ability to Work Independently | ● Decision Making Skill |
| ● Theoretical Skills | ● Teamwork Skills | |
| ● The Ability to Acquire New Knowledge | ● The Ability to come up with new ideas and solutions | |
| ● Conceptual Knowledge | ● Communication Skills | |

References

Mrs. M.T. Shashini Bhagya

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Declaration

I hereby certify that the above-mentioned details are true and accurate to the best of my knowledge and belief.


Nayani Abepala