Nayani Abepala

Machine Learning Engineer - Intern

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Personal Portfolio

My Blog

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 (Current GPA 3.4)
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), API Development
Data Management: MySQL
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

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.

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.

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.

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.

Awards & Achievements

Winner - Hack Like A Girl 2.0 | 2024
First Runner Up - Mora UXplore 2.0 (Designathon) | 2024
Golden Ticket Winner - Dialog Innovation Challenge | 2024 [YouTube]
First Runner Up - TAD Hack Sri Lanka | 2024 [YouTube]
Winner of Most Popular Category - Tech Narrator Competition | 2024
Second Runner Up - PearlHack V1.0 | 2023
Semi Finalists - PearlHack V2.0 (Designathon) | 2024
Top 10 Finalists - OpenHack>2.0 (Designathon) | 2023

Experiences

Graphic Designer in Zero Plastic Sabaragamuwa Community (Clean Up 1.1 Project)
Graphic Designer in IEEE WIE Student Branch Affinity Group of SUSL
Web Development Session Instructor STEM UP in the CoderDojo project
Web Designer in Qwhiz 1.0 (Quiz Competition)

Volunteering & Memberships

Member in IEEE Organization, IEEE Computer Society & IEEE Women in Engineering (2024-2025)
Volunteer in IEEE WIE Student Branch Affinity Group of SUSL (2022-2024)
Volunteer in Zero Plastic National Movement (2023-2024)
Member & Volunteer in Generation Alpha (2023-2024)
Cadet Volunteer in St John Ambulance (2013-2024)
Member in Society Of Computer Sciences (SOCS)

Soft Skills

- Analytical & Problem Solving
- Innovative Thinking
- Leadership Skills
- The Ability to Acquire New Knowledge
- Conceptual Knowledge
- Written Skills
- Communication Skills

References

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