YEMANI PERERA

Colombo, Sri Lanka punsisiyemani18@gmail.com +94 71 499 9801

in Yemani Perera WAPunsisiYemaniPerera Portfolio

Summary

Dedicated undergraduate student with strong technical knowledge and an analytical problem-solving mindset, eager to contribute to real-world challenges. Possesses a keen interest in building complex, robust solutions and a particular passion for leveraging data to derive valuable insights. Aims to contribute fresh ideas, adapt quickly, and add real value to dynamic projects through innovation, teamwork, and continuous learning.

Education

Horizon Campus, Malabe *2022 – Present*
B.Sc. (Hons) in Information Technology

Gothami Balika Vidyalaya, Colombo 10 *2017 – 2020*
GCE Advanced Level - Biological Science

Professional Skills

- **Programming Languages:** Python, Java, C, JavaScript
- **Machine Learning:** AI/ML model development, Supervised & Unsupervised Learning, Deep Learning
- **Frameworks & Libraries:** TensorFlow, Keras, scikit-learn, Pandas, Matplotlib
- **Web Development:** React, HTML, CSS, Tailwind CSS, Node.js, Express.js
- **Databases:** MongoDB, MySQL, Firebase
- **Mobile App Development:** Android (Java)
- **UI/UX:** Figma
- **Project Management:** Jira Software
- **Tools & IDEs:** Android Studio, VS Code, Anaconda, Jupyter Notebook, NetBeans
- **Others:** Git, GitHub, Postman, Kaggle, Hugging Face

Projects

AI-Powered Skin Disease Classification
Technologies: TensorFlow, Keras, VGG16 (Transfer Learning), NumPy, Matplotlib

- Built a CNN model to classify 8 skin disease types, achieving approximately 94% validation accuracy.
- Leveraged VGG16 and Transfer Learning techniques to overcome limited dataset challenges.

Exercise Duration Prediction App —
Technologies: Scikit-learn (Ensemble Learning), Streamlit, Pandas, Python

- Developed an end-to-end predictive model using ensemble learning techniques, achieving $R^2 = 0.977$.
- Designed and deployed an interactive UI on Streamlit Cloud for real-time predictions and visualizations.

Restaurant Management System
Technologies: HTML, CSS, JavaScript, MySQL

- Created a web-based food ordering system for registration, browsing, and order management.
- Features include user authentication, admin controls, and dynamic menus.

BackPackerLK – Travel & Tourism App ⌾

Technologies: Android (Java), Firebase (Firestore, Analytics), Material Components

- Created a native Android app for travelers to discover and book destinations across Sri Lanka.
- Integrated Firebase Firestore to manage dual-profile functionality for travelers and service providers.

Crystal Beauty Clear – E-Commerce Platform [Ongoing] ⌾

Technologies: React, Node.js, Express.js, MongoDB, Tailwind CSS, Supabase, JWT

- Built a full-stack e-commerce system featuring authentication, product management, and order processing.
- Ensured scalability and maintainability through modular architecture and secure data management.

**AI-driven Digital Platform for Maternal and Infant Healthcare in Sri Lanka –
Final Year Project [Ongoing]**

Technologies: Express, React, Node.js, Flutter, Python, Firebase

- Designing a full-stack system to digitize Sri Lanka's maternal healthcare records, connecting mothers, public health midwives, and hospitals.
- Integrating a Python-based AI model for infant cry analysis and a chatbot to provide maternal mental health support.

Strengths

- Problem-solving and analytical skills
- Teamwork, leadership, and collaboration
- Creativity, visual thinking, and time management

Leadership

- **Head of Content Writers**
  Horizon Campus Cyber Security Club : *2024 – 2025*

Certifications

- **AI/ML Engineer Course (Stage 1)**, SLIIT, Sri Lanka (2025)
- **Postman API Fundamentals Student Expert** (2025)
- **Intro to Deep Learning**, Kaggle (2024)
- **JavaScript Essentials 1 & JavaScript Essentials**, Cisco (2024)
- **Web Design for Beginners**, University of Moratuwa (2024)
- **Java Development Workshop**, IDET (2024)
- **Python Programming and Introduction to Programming Using Python**, Udemy (2024)

References

- **Mr. Daminda Herath**
  Senior Lecturer, Horizon Campus Malabe
  damindaherath@horizoncampus.edu.lk
  +94 77 729 6275

- **Mr. Pasindu Sampath Bandara**
  Associate Software Engineer, Softsora
  pasindub32@gmail.com
  +94 78 714 9579