

# 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

<b>Horizon Campus, Malabe</b> <i>B.Sc. (Hons) in Information Technology</i>	2022 – Present
<b>Gothami Balika Vidyalaya, Colombo 10</b> <i>GCE Advanced Level - Biological Science</i>	2017 – 2020

## 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

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