

# Omila Paravithana

AI / Machine Learning Intern

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## Profile Summary

Motivated AI/ML Intern with a strong foundation in computing, data handling, and software development. Experienced in full-stack development, IoT systems, and API integrations. Currently expanding skills in machine learning fundamentals, Python-based model development, data preprocessing, and evaluation techniques. Passionate about applying ML concepts to real-world applications and combining software engineering with intelligent automation.

## Education

**BSc (Hons) in Computing & Information Systems (Undergraduate)** 2023 – Present  
Sabaragamuwa University of Sri Lanka

**St. Aloysius' College – Galle** 2018 – 2020  
G.C.E. A/L — Physical Science Stream

## Technical Skills

**Programming:** Python, JavaScript, Java, C, PHP

**Machine Learning:** Regression, Classification, Data Preprocessing, Model Evaluation

**ML Tools:** NumPy, Pandas, Scikit-Learn, Matplotlib

**Frameworks & Libraries:** React.js, Next.js, Express.js, Tailwind CSS

**Databases:** MongoDB, MySQL, Firebase, Firestore

**Tools:** Postman, Figma, Canva, Trello, VS Code

**Version Control:** Git, GitHub

## Projects

**CityBin – Smart Garbage Monitoring System** 2025  
ESP32-C3, Arduino, React.js, Node.js, MongoDB *Group Project*

- Programmed IoT hardware using ESP32, ultrasonic sensors, and load cells.
- Built REST APIs for real-time bin-fill and weight data transmission.
- Designed React.js dashboard components for environmental monitoring.
- Implemented automated full-bin alert mechanisms.

**PetVaxHub – Smart Pet Vaccination System** 2024  
React.js, Node.js, Express.js, MongoDB *Group Project*

- Developed full frontend interface and integrated backend APIs.
- Designed components for vaccine tracking and reminder workflows.
- Improved accessibility and organization of pet health information.

## **Students' Colors Management System** **PHP, MySQL, HTML, CSS**

2025  
*Group Project*

- Designed intuitive frontend layouts for student group allocation.
- Implemented backend logic for automated color assignment.
- Increased administrative efficiency using database-driven workflows.

## **PinkPost – Smart Gift Customizing Platform** **React.js, Node.js, Express.js, MongoDB, Stripe API**

2025 – Ongoing  
*Individual Project*

- Designed interactive gift customization UI with responsive design.
- Integrated Stripe API for secure payment processing.
- Developed backend modules for authentication and order management.

## **Interests**

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IoT Development, UI/UX Design, Real-Time Systems, Automation, Modern JavaScript Frameworks.

## **Soft Skills**

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- Team Working Skills
- Problem-Solving Skills
- Self-Learning Ability
- Communication Skills
- Time Management
- Critical Thinking
- Creativity
- Leadership
- Emotional Intelligence

## **Non-Related References**

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### **Prof. B.T.G.S. Kumara**

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### **Mrs. S. Adeeba**

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