

# ETHAN PERERA

AI & Data Science Undergraduate

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## PROFESSIONAL SUMMARY

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Enthusiastic Artificial Intelligence and Data Science undergraduate with practical experience in Machine Learning engineering, Agentic Workflows, and Full Stack Development. Proven track record in developing AI-driven automation tools, ERP modules, and secure web applications. Proficient in Python, Java, and cloud technologies (AWS), with a strong foundation in Object-Oriented Programming and Data Structures.

## TECHNICAL SKILLS

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- **Languages:** Python (Proficient), Java (Proficient), JavaScript, SQL, HTML, CSS, ABAP.
- **AI/ML & Data:** LangChain, LangGraph, OpenAI API, Anthropic, Gemini, Scikit-Learn, NumPy, Pandas, OpenCV, MediaPipe, Vellum.
- **Frameworks & Web:** Spring Boot, React.js, Node.js, Flask, Django, Selenium, JavaFX, Playwright.
- **Tools & Cloud:** AWS (EC2, S3, Lambda, Redshift), Docker, Git/GitHub, PostgreSQL, MongoDB, Jenkins, Odoo, Apache Airflow.

## EDUCATION

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**Robert Gordon University (via IIT)**  
*BSc (Hons) Artificial Intelligence and Data Science*

Colombo, Sri Lanka  
2023 – 2027 (Expected)

**Gateway College**  
*Pearson's Qualification in Computer Science & Ordinary Levels*

Colombo, Sri Lanka  
2009 – 2022

- **Achievements:** 3 A\*'s in Math, Computer Science, and Psychology.
- **Extracurricular:** Founder of Esports Society; Senior Brass Band Member.

## PROFESSIONAL EXPERIENCE

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**Altrium (PVT) LTD**  
*AI & ML Engineer Intern*

Colombo, Sri Lanka  
May 2025 – Present

- Developed advanced agentic workflows and automation tools using **LangGraph** and **LangChain**.
- Integrated multiple Large Language Models (Gemini, Anthropic, OpenAI, Groq) to optimize internal processes.
- Utilized **Playwright** for web automation tasks in conjunction with AI agents.

**Fardar Express Domestic (PVT) LTD**  
*Software Developer (Contract)*

Colombo, Sri Lanka  
Feb 2025 – Nov 2025

- **ERP Development:** Engineered custom modules in **Odoo** using Python and PostgreSQL; managed user roles, staging environments, and deployment.
- **Attendance System:** Built a full-stack biometric attendance tracking system using **Flask**, **React**, and **Node.js**.
- Implemented a secure authentication layer and utilized Pandas for data reporting.
- Deployed solutions using **Docker** and optimized SQL queries for performance.

**Planyear (PVT) LTD**  
*AI & ML Engineer Intern*

Colombo, Sri Lanka  
May 2025 – Oct 2025

- Developed agentic architectures for translation and summarization services using **Spring AI** and **MongoDB**.
- Contributed to full-stack development using **Spring Boot**, **React**, and Java.

- Monitored production environments, managing active pods and sessions via Jenkins.

**Rizing (IT Services)**

*Summer Intern*

Colombo, Sri Lanka

July 2024 – Aug 2024

- Gained foundational knowledge in **SAP** and **ABAP** programming.

- Participated in high-level sessions regarding enterprise software workflows and consulting practices.

**Questas Global / BCS Technology**

*Customer Support Engineer*

Colombo, Sri Lanka

Apr 2023 – Jan 2024

- Managed Active Directory groups and resolved RDP session issues for a large user base.

- Enforced policy compliance and managed Microsoft license assignments.

**Metamorph Global**

*Associate Data Automation Engineer*

Remote

Mar 2023 – May 2023

- Automated data collection from LinkedIn using **Selenium** and **Beautiful Soup**.

- Led the project lifecycle from script development to data cleaning using Python and Excel Macros.

## KEY ACADEMIC PROJECTS

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**AWS Data Engineering Pipeline**

Jan 2025 – Apr 2025

- Designed an ETL pipeline extracting weather API data, transforming it, and loading it to Redshift.
- Configured **AWS EC2**, **Lambda**, **S3**, and **CloudWatch** for monitoring and automation.

**Bank Marketing Prediction Model**

Sept 2024 – Dec 2024

- Developed Neural Network and Random Forest classifiers to predict term deposit subscriptions.
- Applied dimensionality reduction (PCA), SMOTE for class balancing, and hyperparameter tuning.

**News Article Recommendation System**

Sept 2023 – May 2024

- Built a JavaFX application integrating local LLMs via **Ollama** for content analysis.
- Implemented threading/concurrency for performance optimization.

**Robot Pathfinding Algorithm**

Jan 2024 – May 2024

- Implemented the A\* algorithm using custom data structures (Priority Queue, Doubly Linked List) to simulate efficient robot navigation.

## REFERENCES

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**Thushara Perera**

Network Lead at Wiley

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**Vishmi Embuldeniya**

Lecturer at IIT

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