

ETHAN PERERA

AI & Data Science Undergraduate

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PROFESSIONAL SUMMARY

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

- **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

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

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

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

Thushara Perera

Network Lead at Wiley

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