



# ETHAN PERERA

READING IN BSC (HONS) ARTIFICIAL  
INTELLIGENCE AND DATA SCIENCE

## CONTACT

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## EDUCATION

2023~2027

ROBERT GORDON UNIVERSITY

- Bachelors of AI & Data Science

2009~2022

GATEWAY COLLEGE

- Pearson's Qualification in computer science/ICT
- Ordinary Levels in Math's and Computer Science
- General Academics

## SOFT SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

## LANGUAGES

- English (Fluent)
- Sinhala

## PROFILE

As an undergraduate in data science, I present myself as to being someone that is enthusiastic and experienced in machine learning, data engineering and fundamental concepts and theories in cyber security and object oriented principles. Besides that, I believe that I'm quite outgoing and sociable when relevant. To conclude, my experience falls into the domain of data science.

## WORK EXPERIENCE

**Fardar Express Domestic (PVT LTD)** 2025 (February to March)

*Software Developer - Contract Based*

- Developed an ERP tool and module using Odoo as a key contract based project learning the following domains:
  - PostgreSQL-based database management: Worked extensively with PostgreSQL, managing data and ensuring smooth interaction between the backend and the application
  - Custom Module Development: Developed custom modules in Odoo, tailoring the system to meet the specific needs of the project and integrating new functionality into the existing platform.
  - Staging and Deployment: Was involved in preparing and staging virtual environments for application deployment, ensuring that the system ran efficiently on the target machines.
  - User and Group Policy Assignment: Configured user roles and permissions within Odoo's database, managing access control and ensuring that each user had the appropriate level of access based on their role.
- This project introduced me to the fundamental concepts and practices of both enterprise resource planning (ERP) and customer relationship management (CRM) tools

**Questas Global/ BCS Technology**

2023 (April to January 2024)

*Customer support engineer*

- Worked as a customer support engineer, collaborating with a team to contact users and enforce policies.
- Participated in weekly sessions to plan and align tasks for the week.
- Took responsibility for initializing and implementing some policies in coordination with the team.
- Managed license assignments, including reassigning Microsoft licenses across user groups.
- Gained hands-on experience in Active Directory group management, customer support troubleshooting, and resolving RDP session issues.
- Developed a diverse skill set through team collaboration and consistent troubleshooting efforts.

## EXPERTISE

- Basic knowledge of data representation using R Studio.
- Though rough understanding of CSS and HTML.
- Useful skills in implementing JavaScript and adhering to coding standards for group projects on GitHub.
- Developed skills in using GitHub for version control to backtrack, manage versions, and release stable applications.
- Strong understanding of Java and Python.
- Adept understanding of Machine Learning concepts and theories
- Though rough understanding of data curation techniques, etc

## PROGRAMMING LANGUAGES

- Java (Very proficient)
- Python (Very proficient)
- CSS
- HTML
- Java Script
- PHP (amateur but knowledgeable)
- SQL

## FRAMEWORKS

- Selenium (for automation)
- JDA (Java Discord API)
- JavaFX (application development)
- Flask and Django (for web based implementations)

## WORK EXPERIENCE (CONTINUED)

**Metamorph Global** 2023 (March to May)

*Associate data automation engineer*

- Solely tasked with automating data collection from sites like LinkedIn.
- Utilized tools and libraries such as Beautiful Soup and Selenium for web scraping.
- Automated data cleaning using custom software and Excel Macros.
- Managed and led the entire project independently over one month.
- Spent an additional month troubleshooting to ensure the software functioned as intended.

**Rizing (IT Services and IT Consulting)** 2024 (July to August 2024)

*Summer Intern*

- Participated in a month-long summer internship program featuring sessions with high-ranking professionals who shared their experiences and advice.
- Gained exposure to various companies, learning about their work culture and the skills required to succeed.
- Introduced to the concepts of ABAP and SAP, gaining foundational knowledge in these technologies.
- The internship served as a gateway to the industry, providing valuable insights and practical exposure.

**Gateway College** 2020~2022

*Editor/Designer for Gamer.LK*

- Gained experience in designing and editing posters for live streams and events while studying at Gateway.
- Worked under Gamer.lk, handling tasks under tight time constraints.
- Successfully created designs and videos that attracted significant attention, including from major organizations like Dialog and SLT.
- [Link to YouTube channel](#)

## ACADEMIC EXPERIENCE (IIT)

**Web Technology - Group Project for Medical Site** 2024 (JAN) ~2024 (MAY)

- Developed a dynamic, functional website using JavaScript, HTML, and CSS for coursework. Gained skills in project management, Git, and version control fundamentals.

**Programming Fundamentals - OOP** 2023 (Sept) ~2024 (May)

- Enhanced Python and Java skills, enabling the development of applications using JavaFX and SceneBuilder, with confidence in IntelliJ and VS Code.
- The second coursework introduced sequence and class diagrams for system design and involved building a news article recommendation system. This project integrated a language model from Ollama, utilized threading and concurrency for efficiency, and enhanced skills in AI-driven solutions and application performance optimization.
- [Link to first JavaFX application](#)
- [Link to second application with ollama](#)

## LIBRARIES (PYTHON)

- Sympy
- Seaborn
- Matplotlib
- SciKitLearn
- Numpy
- OpenCV
- Pandas
- TensorFlow
- Imblearn (for dataset balancing)

## ACADEMIC EXPERIENCE (IIT) CONTINUED

### Data Structures & Algorithms - Path

2024 (Jan) ~2024 (May)

#### Finding Algorithm Application

- This module introduced fundamental data structures like stacks, queues, and linked lists. For coursework, I developed a robot pathfinding algorithm using A\* with custom data structures, including a priority queue and a doubly linked list. Additionally, I gained an understanding of time and space complexity, emphasizing efficient code and optimized processing.

### Mathematics for computing & machine learning

2023 (Sept) ~2024 (December)

- Module CM1606 provided a solid foundation in statistical data analysis using mathematical techniques. It introduced data representation through R Studio, enhancing my ability to curate and present data effectively. The module offered a comprehensive overview of statistical analysis and data engineering.
- Additionally, Module CM2603 introduced me to tools and frameworks like Matplotlib, Seaborn, and NumPy, as well as advanced concepts such as Fourier Transform and Fourier Series for image manipulation. It also covered complex mathematical theories essential for machine learning, further broadening my understanding of data analysis and computational techniques.

### Machine Learning

2024 (Sept) ~2024 (Dec)

- In this module I was introduced to the concepts of machine learning and data curation, I had covered complex learning algorithms such as random forests, neural networks, Support Vector Machines and clustering for data minimization
- Furthermore, I was introduced to the process of dimensionality reduction such that I now know how to merge features such that it may deduce the overall size of a dataset while retaining its initial data values
- Thereafter, I was given a coursework to curate a bank-marketing dataset and to then develop a neural network and random forest classifier to predict if a person is to make a deposit or not
- Some issues I had experienced and solutions I had implemented in the module include:
  - Class Balancing through SMOTE and Bagging
  - Bias assessments
  - Hyperparameter tuning during cross validation assessments
  - Handling outliers (e.g. implementing winsorizing)
  - Assessing optimal features through information gain
  - Implementing dimensionality reduction techniques such as PCA to minimize feature ranges
- [Link to machine learning coursework](#)

## ACADEMIC EXPERIENCE (IIT) CONTINUED

### Data Engineering

2025(Jan) ~2025 (Apr)

- In this module I was introduced to the fundamentals of data engineering with DevOps based etiquettes and workflows
- I was introduced to core concepts in AWS in terms of databased management tools to EC2 instances and function based processes.
- Workflows that included ETL pipelines and lambda functions for creating backups from S3 buckets to Redshift servers were also introduced to me
- Not to mention that how to setup an instance and manage and maintain it was provided as an additional skill for me
- Furthermore, I was introduced to fundamental security policies to implement in terms of creating login portals to full scale business sites
- In conclusion, I gathered the following skills:
  - AWS CloudWatch Monitoring
  - AWS Lambda
  - AWS EC2
  - AWS Redshift
  - Apache Airflow
  - AWS S3 Setups
  - AWS IAM User Management and Setup
  - ETL workflows
  - Kafka Confluent
- On top of all this, I was provided with a coursework that required me to setup an EC2 instance that follows an ETL based approach to collecting, transforming and loading the data extracted from a weather API

## ACADEMIC EXPERIENCE (GATEWAY COLLEGE)

### Kindergarden - Grade 12

2009 (Sept) ~2022 (Dec)

- Developed strong soft skills through teamwork, leadership, and effective communication. Honed mathematical prowess, applying it to problem-solving and computational tasks. Excelled in computer science with a focus on AI, programming, and system development.
- Played basketball for the team for two years, demonstrating teamwork, strategic thinking, and resilience during competitive matches. Actively pursued swimming, highlighting discipline, physical fitness, and commitment to personal growth.
- Scored 3 A\* for my Edexcel ordinary level examinations for:
  - Maths
  - Computer Science
  - Psychology
- Furthermore, I was a part of the Gateway College Senior Brass Band as to where I had attended multiple promotional and awarding ceremonies to play for them (sports meets included)
- Attended multiple volunteering events and was a founding member of the Esports society

## REFERENCE

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Network Lead at Wiley

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