

HANSALIE MATARAARACHCHI

COMPUTER SCIENCE UNDERGRADUATE OF UNIVERSITY OF WESTMINSTER

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Profile

A committed computer science undergraduate with a strong passion for startups and innovation. Proficient in machine learning, data structures & algorithms, with hands-on experience through academic and project-based work. Eager to apply technical skills in a real-world environment as a machine learning intern while gaining valuable industry experience and contributing to impactful data-driven solutions.

Education

- **Informatics Institute of Technology** Sep 2023 - Present
BSc (Hons) Computer Science
- **1st year selected modules (Average – 82.3%)**
 - Software Development I (Python)
 - Software Development II (Java)
 - Web Design and Development
 - Mathematics for Computing
 - Trends in Computer Science
 - Computer Systems Fundamentals
- **2nd year selected modules (Average – 85.8%)**
 - Object Oriented Programming
 - Database Systems
 - Client-Server Architectures
 - Machine Learning and Data Mining
 - Algorithms: Theory, Design and Implementation
 - Software Development Group Project
- **Sacred Heart Convent, Galle** 2008 - 2021

Skills

IT Skills

- Programming languages - Python, Java, JavaScript
- Machine Learning - pandas, NumPy, scikit-learn, Matplotlib
- Database management - MySQL, MongoDB
- Tools & Platforms - GitHub, Google Colab, Postman
- Concepts - OOP, Data Preprocessing, Model Evaluation

Soft Skills

- Leadership
- Team collaboration
- Presentation Skills
- Adaptability
- Commitment to excellence

Projects

CeyLand - Blockchain-Based Land Document Management System | Sep – March 2025

- The second-year group project, where I served as the team leader, CeyLand, is a decentralized platform designed to revolutionize deed management in Sri Lanka using blockchain technology. It tackles key challenges in traditional systems, such as fraud, lack of transparency, and inefficient manual processes, by ensuring immutability, transparency and security. Main key features include secure deed uploads with immutable storage and NFT- based ownership transfers using smart contracts.

Titanic Survival Prediction | Kaggle Competition | April 2025

[View Project](#)

- Developed a logistic regression model to predict Titanic passenger survival.
- Achieved 77.03% on the Kaggle public leaderboard.
- Handled missing values, performed feature engineering, categorical encoding, and feature scaling.
- Evaluated model using confusion matrix and ROC AUC (AUC \approx 0.88).

Python | pandas | NumPy | scikit-learn | Matplotlib | Logistic Regression

London House Price Prediction | Kaggle Competition | April 2025

[View Project](#)

- Built a linear regression model to estimate London house prices.
- Ranked 95th out of 225 with a Kaggle public score of 251,019.423.
- Cleaned data, handled outliers, applied log transformations, and used robust scaling.
- Achieved a validation R^2 score of 0.638 on unseen data.

Python | pandas | NumPy | scikit-learn | Matplotlib | Linear Regression

Podcast Listening Time Prediction | April 2025

[View Project](#)

- Developed a k-Nearest Neighbors (kNN) regression model to predict podcast listening time.
- Optimized hyperparameters using GridSearchCV with 5-fold cross-validation.
- Performed thorough data preprocessing: cleaning, outlier removal, scaling, and one-hot encoding.
- Evaluated model using Mean Squared Error (MSE = 189.93) and R^2 score (0.7421).

Python | pandas | NumPy | scikit-learn | Matplotlib | kNN | GridSearchCV

Real-Time Ticketing System | Dec 2024

[View Project](#)

- Developed a multi-threaded Java application that simulates real-time ticket distribution using synchronized vendor-customer threads. Ensured concurrency control with locks, semaphores, and synchronized collections. Implemented robust logging and MySQL-based configuration persistence for scalable and consistent runtime behavior.

Java | MySQL | multi-threading | OOP

Achievements

- Completed the Foundation Certificate in Higher Education - IT at IIT with a distinction
- Participated in the IIT Cutting-Edge annual exhibition – 2023 and was selected as one of the top 5 projects from Foundation category
- Participated in global hackathons (IEEEXtreme 17.0 & 18.0 & Xtreme Encode)

Certifications

- Python for Data Science, AI & Development – IBM
- Supervised Machine Learning: Regression and Classification – DeepLearning.AI
- Professional Certificate in Machine Learning – IIT PDU
- Professional Certificate in Java Programming – IIT PDU

References

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