DINETH HETTIARACHCHI

AI/ML ENGINEER | IOT + DATA SOLUTIONS DEVELOPER | COMPUTER SCIENCE UNDERGRADUATE

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SUMMARY

Computer Science undergraduate at the University of Plymouth with hands-on experience delivering Al solutions for real-world clients and community needs. Skilled in Python, cloud platforms, and building full-stack applications. Eager to apply and expand my expertise in Al/ML in a collaborative, fast-paced environment.

PROJECTS

Smart Beehive Monitoring System - (GitHub)

- Built real-time IoT system with Arduino and CO₂ sensors, processed ~1,400 sensor readings/day for hive health monitoring; developed ML anomaly detection (Scikit-learn) and prototype alerting for beekeepers.
- Developed ML models for **predictive analytics** and **anomaly detection** (Scikit-learn, Google Colab); delivered actionable insights for Sri Lankan beekeepers.
- Exploring acoustic-based Al detection (queen/swarming/stress) and Unified anomaly detection pipeline, TinyML edge deployment for real-time alerts, and a secure, commercial-style dashboard.

• Telco Customer Churn Prediction(telco_mlops) - (GitHub)

- Built E2E churn pipeline: exploratory data analysis, feature engineering, model training (Logistic, RandomForest, XGBoost, CatBoost and stacking ensemble); produced test ROC-AUC 0.847 and CatBoost F1
 0.628 and implemented a FastAPI inference prototype.
- Implemented reproducible ML pipeline (modular pre-processing, performance reports). Performed business ROI analysis and produced reproducible notebooks and model artifacts for productionization.

Atiqlo Mobile Marketplace - (GitHub)

- Developed a full-stack mobile app enabling Sri Lankan artisans to sell handmade products, with secure payments, real-time chat, and inventory management.
- Launched first digital storefront for local crafters, bridging traditional skills with modern e-commerce.

BookBridge – Used Book Marketplace Platform - (GitHub)

- Built a full-stack platform for trading used books with verified listings, real-time chat, and feedback systems (React, Node.js, MongoDB, Socket.IO).
- Added user analytics and trust-based search to improve safety and user experience.

Air Quality Monitoring Dashboard - (GitHub)

- Developed a web platform for real-time Colombo AQI visualization using interactive maps, with automated data simulation and role-based access controls.
- Built a simple chatbot for live AQI queries using **OpenAI GPT** API, applying prompt engineering for user interaction.

• BudgetMe - Personal Finance Manager - (GitHub)

- Windows desktop app for personal finance management (C#, .NET, SQL Server LocalDB) with modules for transactions, debt tracking and investments.
- Designed the SQL schema and implemented the ADO.NET data access layer and Windows Forms UI; includes dashboard visualizations and scripts to initialize the LocalDB.

PROFESSIONAL EXPERIENCE

Presentation Designer & Brand Strategist

Jan 2023 – Present (Freelance)

- Designed 100+ investor decks across 15 industries; maintained an average client feedback rating of 4.9/5.
- Translated complex data and research findings into clear, actionable insights for non-technical audiences.
- · Built custom data dashboard visualizations for clients using Python (Matplotlib, Seaborn) and PowerPoint.

EDUCATION

University of Plymouth (United Kingdom)

B.Sc. (Hons) in Computer Science - Minor in Artificial Intelligence

Expected Graduation: Dec 2026

CERTIFICATIONS

- Microsoft Certified: Azure Al Engineer Associate, Microsoft (Credentials)
- Oracle Cloud Infrastructure Certified: Foundations Associate, Oracle (Credentials)
- Google Data Analytics Professional Certificate, Google
- An Introduction to Programming the Internet of Things (IOT) Specialization, UOC, Irvine
- Machine Learning Specialization Andrew Ng, Coursera Expected Sep 2025

SKILLS & TOOLS

- Languages: English (Fluent), Sinhala (Native)
- Programming: Python, JavaScript (Node.js), C++, Angular (Learning)
- AI/ML: Embeddings, NLP, Prompt Engineering, FAISS, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy. OpenAI API, Hugging Face
- Cloud & Tools: Azure (Certified), AWS, Docker, Git, Jupyter, Google Colab
- Other: Data Visualization (Matplotlib), Feature Engineering, REST APIs, CI/CD, unit tests
- . Soft Skills: Problem-solving, teamwork, strategic thinking, adaptability, curiosity

REFERENCES

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