ISIRA WEERASINGHE

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ABOUT ME

I am a third-year Computer Science undergraduate at the Informatics Institute of Technology (IIT), specializing in Machine Learning and Full Stack Development. I initially worked as a Full Stack Developer and was later promoted to AI Engineer. I have contributed to multiple projects involving Spring Boot, FastAPI, React, and LLMs.

My academic and professional focus includes AI-driven systems, NLP, data visualization, and real-time applications.

WORK EXPERIENCE

Arimac – AI And Data Science Intern   May 2025 – Present (5 months)

Key Projects

Siddhify – Employee Management System (Full Stack Developer)
Developed a full-featured employee management platform with Spring Boot (backend) and Next.js + Redux(frontend).

Sherlock AI – AI-Powered Banking and Fraud Detection System (AI Engineer)
Designed and implemented fraud detection models using Python and Machine Learning algorithms.

PROJECTS

Employee Management System (For The Metropolitan Technologies)

- Engineered a system to analyze employee work culture, attendance, and task routing.
- Created separate admin and employee panels for data visualization and management.
- Developed the backend using Spring Boot and the frontend using React + TypeScript.

Generator Monitoring System

- Built a real-time generator performance monitoring dashboard.
- Collected data via MQTT and synchronized it with the Spring Boot backend.
- Designed the React dashboard for visualizing live readings (voltage, RPM, temperature, etc.) and system alerts.

MOMMYcare+ (Group Project)
Mobile app for detecting postpartum depression using EPDS.

- Developed backend using FastAPI with LLM integration (LangChain/OpenAI API).
- Collaborated with Flutter team for seamless API integration.
- Technologies: Python, FastAPI, LLM, Flutter

EDUCATION

BSc (Hons) in Computer Science (Pending)   Oct 2023 -2027

Informatics Institute of Technology (IIT) – affiliated with **University of Westminster**

 Modules: Machine Learning and Data Mining, Robotic Principles

S. Thomas' College, Bandarawela

    GCE Advanced Level (2023)

- Mathematics (C), Physics (C), Chemistry (C)

    GCE Ordinary Level (2019)

SKILLS

Programming: Java, Python

Frameworks:

- Frontend – React.js, TypeScript
- Backend – Spring Boot, FastAPI
- Database – PostgreSQL, Vector Database
- ML & AI: PyTorch, Scikit-learn, LangChain, OpenCV
- Data Processing: Pandas, NumPy
- Tools: Power BI, Git, MQTT

CERTIFICATES

- PyData Sri Lanka Jan Post-Conference (2025)
- Fundamentals to Become a Machine Learning Engineer (2024)
- Large Language Models: Text Classification for NLP using BERT (2024)
- Introduction to Large Language Models (2024)
- Deep Learning: Model Optimization and Tuning (2024)
- Java Programming: Solving Problems with Software (2024)
- Programming for Everybody (Getting Started with Python) (2024)
- Training Neural Networks in Python (2024)
- The Cybersecurity Threat Landscape (2024)
- Azure Data Factory (2025)

REFEREES

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