

Mohamed Shamil

AI/ML Engineering Intern

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PROFILE

As a dedicated and passionate AI undergraduate, I thrive on engaging with innovative projects and seeking out new challenges. My collaborative nature and genuine enthusiasm drive me to contribute effectively in dynamic environments, while I continuously enhance my skills and knowledge in the IT industry.

EDUCATION

Bachelor of Science Honours in Artificial Intelligence (BSc Hons (AI)) 2022 – 2026

University of Moratuwa

- Faculty of Information Technology.
- CGPA - 3.29 (Until L2S2)

G.C.E Advanced Level-Physical Science Stream 2018 – 2020

Kekunagolla National School

- Mathematics - A , Physics - B , Chemistry - A
- Z-score - 1.7860

PROJECTS

AI-Assisted Carbon Footprint Monitoring System 📄 11/2023 – 07/2024

Collaborative Project: Developed as part of a team to analyze CO2e emissions in the food supply chain using AI/ML for sustainability.

My Role: Focused on **data Preprocessing, AI/ML modeling, building backend microservices**, and designing intuitive **UI interfaces**.

Key Contributions:

- Cleaned, normalized, and engineered datasets for robust modeling.
- Applied machine learning models to analyze emissions and generate actionable insights.
- Designed and implemented a microservice for vendor and product management, integrating it with the system architecture.
- Developed user-friendly navigation and data visualization components for the frontend.
- **Technologies:** React.js, Node.js, Spring Boot, MySQL, Scikit-learn, Google Cloud, Figma.

ATS Tracking System 📄 2024

Built an ATS system using Streamlit and Gemini API to evaluate resumes against job descriptions.

- **Feature:** Calculates job description match percentages, identifies missing keywords, generates profile summaries, provides feedback and suggestions for improvements, and is deployed on Streamlit Community Cloud.
- **Technologies:** Streamlit, Python, Google Generative AI, Matplotlib.

Obesity Classification Prediction 2024

Built ML models to predict obesity levels based on medical datasets.

- **Key Contributions:** Evaluated classifiers (XGBoost, LightGBM, Decision Tree), optimized hyperparameters for accuracy.
- **Technologies:** Python, Scikit-learn, XGBoost, LightGBM.

E-Waste Recycling Management - Multi-Agent System 📄 2024

Developed a **multi-agent simulation** to optimize e-waste collection, sorting, and recycling. Simulated agent interactions and decision-making to enhance waste management efficiency.

Technologies: MESA, Matplotlib

Customized Healthcare Chatbot

2024

Developed a healthcare chatbot using Vertex AI to address patient queries and provide medical information from healthcare-specific datasets.

- **Integration:** Developed a custom React frontend for improved user interaction.
- **Deployment:** Hosted on Google Cloud for scalability and real-time monitoring.
- **Technologies:** Vertex AI, Python, React, Google Cloud.

Autonomous Chessboard Project

2022 – 2023

Developed an AI-assisted chessboard as part of a hardware project.

- **Role:** Developed the LCD module for displaying chess moves and instructions, collaborated on hardware-software integration, and resolved development and testing issues, demonstrating teamwork, communication, and problem-solving skills.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C
- **Web Development:** JavaScript, Spring Boot, React
- **Database:** MSSQL, MySQL
- **Project Management Tools:** Trello
- **IDE:** IntelliJ, Visual Studio
- **Other:** Figma, LucidChart, SketchUp

SOFT SKILLS

- Problem Solving
- Team Working
- Adaptability
- Continuous Learning
- Time Management

CERTIFICATES

Python For Beginners-University of Moratuwa | Python Intermediate |
Introduction to Generative AI-Coursera | Introduction to LLMs |
Prompt Engineering | Introduction to Java | Java Intermediate |
Introduction to JavaScript | WebDesign for Beginners

VOLUNTEER AND PARTICIPATION

- IEEE Member
- Company Coordinator-Career Fair 2024
- CodeRush 2023 – Participant
- MoraXtreme 8.0 – Participant

LANGUAGES

English - Fluent

Tamil - Native

Sinhala - Fluent

REFERENCES

Dr. Thilini Piyatilake, Senior Lecturer, University of Moratuwa
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