

Bojitha Liyanage

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SUMMARY

A proactive problem-solver with 2+ years of experience in full-stack development and AI/ML integration. Driven by a passion for tackling new challenges and delivering smarter, more efficient solutions.

EXPERIENCE

- Software and AI/ML Engineer** May 2023 - Present
Coachello  Remote
 - Full-stack developer with hands-on experience building scalable web applications and AI-driven systems. Specialized in integrating modern frontend frameworks with high-performance backend APIs and production-ready AI pipelines.
- Teaching Assistant - Data Structures and Algorithms** Jan 2025 - May 2025
Department of Computer Science & Engineering, University of Moratuwa On-Site
 - Designed C,C++ DSA problems, conducted lab sessions, and weekly discussions with students under the supervision of Dr.Uthayasanker Thayasivam.
- Teaching Assistant - Programming Fundamentals** June 2024 - Dec 2024
Department of Computer Science & Engineering, University of Moratuwa On-Site
 - Designed Python problems, conducted lab sessions and weekly discussions with students under the supervision of Prof. Sanath Jayasena.

TECHNICAL SKILLS

- Technical Fields:** Machine Learning, Generative AI, Natural Language Processing, Large Language Models, Full-Stack Development
- Programming Languages:** Python, JavaScript, C, C++, Java
- Web Development:** HTML, CSS
- Database Management:** MySQL, PostgreSQL
- Frameworks:** React, FastAPI, Gatsby, Apache Spark
- Machine Learning:** PyTorch, Scikit-Learn, Pandas, Numpy, LangChain, HuggingFace, OpenAI, VertexAI
- Big Data:** Spark, HDFS, Amazon Glue, Amazon EMR, GCP Dataproc

PROJECTS

- ScalableXplain - XAI Methods for Distributed Systems** July 2024 - May 2025
Tech Stack: Python, Scala, Cython, Spark, PySpark, GCP 
 - An Explainable AI package for distributed systems with PySpark, integrating popular XAI methods. The package will include distributed implementations of IMM and SAGE, optimizing performance for large-scale datasets, and seamless integration into PySpark workflows.
- AI-TKH - AI-Powered Textile Fiber Learning Platform** October 2024 - Present
Tech Stack: FastAPI, PostgreSQL, React, TypeScript, OpenAI API, pgvector 
 - An educational platform with AI chatbot and semantic search, delivering personalized fiber science education to students, researchers, and industry professionals. Implemented role-based content adaptation and enabling context-aware responses tailored to user expertise levels.
- Automated Book summary and Q/A generating system** July 2023 - November 2023
Tech Stack: Python, Langchain, Huggingface, google/pegasus-cnn, facebook/bart-large-cnn models. 
 - Data Science and Engineering Project
 - Book summarization Web Application with follow a chatbot structure where the user can then proceed to ask questions about the text.
- Human Resource Management System** October 2022 - December 2022
Technologies: JavaScript, ReactJS, NodeJS, MySQL
 - Database Management Systems Project
 - A web-based application where the employees of a company can keep their records on the platform, apply for leaves, the management can approve the requests, and query the reports under various categories.
 - Contribution: Front-end Development, Database Design
- Fake News Prediction System** January 2023 - March 2023
Technologies: JavaScript, ReactJS, NodeJS, MySQL
 - Freelance Project This system predicts fake and real news using the Logistic Regression model, trained using a kaggle fake-real data set. Tech Stack - Python (sklearn, nltk, pandas)

CERTIFICATIONS

- **AWS Academy Data Engineering** AWS Academy - March 2025
- **AWS Academy Machine Learning for Natural Language Processing** AWS Academy - October 2024
- **Generative AI and Large Language Models** Coursera - October 2023
- **Neural Networks and Deep Learning** Coursera - September 2023
- **Supervised Machine Learning: Regression & Classification** Coursera - October 2023
- **Feature Engineering** Kaggle - March 2023
- **Pandas** Kaggle - September 2023

EDUCATION

- **University of Moratuwa** 2021 - 2025
BSc Eng Hons, Computer Science & Engineering Sri Lanka
 - Specializing in Data Science Engineering
- **Royal College - Colombo 07** August 2019
G.C.E. (A/L) Examination Sri Lanka
 - G.C.E A/L August 2019 - 3As - Physical Science Stream | ZScore 2.8086 | DR - 12 | IR - 36
- **Royal College - Colombo 07** December 2016
G.C.E. (O/L) Examination Sri Lanka
 - 9A Passes

LEADERSHIP EXPERIENCE

- **President** 2024 - 2025
Old Royalists Engineering Professionals' Association - Student Chapter 
 - Led an organization of 250+ members, where I developed expertise in governance, strategic planning, conflict resolution, decision-making, financial management, partnership-building, and team development.
- **Director - International Services Avenue** June 2022 - May 2023
Rotaract Club of University of Moratuwa 
 - Organized international collaborations with Rotaract clubs in multiple countries, including a successful Model United Nations conference(SLRMUN). Developed a free IT education platform for underprivileged children in Africa. 
 - Most Innovative Initiative Award 2023 - Gold

SPORTS AND ACHIEVEMENTS

- **Champions - Stridian** 2023
Mora Hiking Club
- **Rifle Shooting** 2013 - 2017
Royal College Colombo 07

ADDITIONAL INFORMATION

Languages: English (Fluent), Sinhala (Native)

Interests: Traveling, Music, Literature, Photography,

REFERENCES

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