LEWWANDI VITHANAGE

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44, Avarihena Rd,Colombo 5, Sri Lanka

OBJECTIVE

Seeking a challenging position in Artificial Intelligence to leverage my expertise in machine learning, deep learning, and computer vision. Aiming to contribute to innovative projects at the intersection of cutting-edge AI research and practical problem-solving in fields such as computer vision, natural language processing, and predictive modeling.

EXPERIENCE

- Zindhu Business Solutions (Pvt) Ltd   *Apr 2024- Present*
Associate Software Engineer

- Implemented container orchestration for backend services using AWS EKS and Docker for microservices deployment
- Developed a real-time vehicle tracking system for Starmarket mobile app using React.js frontend and Node.js backend, implementing RESTful APIs for live location sharing and tracking
- Built a data analytics web application to visualize monthly vessel monitoring system package activation data

- Zindhu Business Solutions (Pvt) Ltd   Oct 2024- *March 2025*
Intern Trainee

- Developed APIs for individual services using Node.js and validated their functionality through comprehensive testing with Postman
- Developed and debugged a full-stack E-commerce platform using Node.js backend and React.js responsive frontend
- Configured AWS S3 bucket management and IAM user roles/permissions for EKS

EDUCATION

- General Sir John Kotelawala Defense University-Ratmalana   *Jan 2022-Dec 2025*
Bsc (Hons) in Electronics and Telecommunication Engineering

- Sirimavo Bandaranaike Vidyalaya-Colombo 7   *2012-2020*
GCE Advanced Level- Physical Science Stream
Combined Maths(B), Physics(C), Chemistry(C)

PROJECTS

- Multi-Person Textured 3D Mesh Reconstruction: Ongoing Research Present   *Present*
Tools: PyTorch, OpenCV, Deep Learning Frameworks

- Developing end to end pipeline using deep neural networks to reconstruct textured 3D human meshes from single RGB image
- Implementing multi-person pose estimation and texture mapping using state-of-the-art computer vision techniques

May 2025

- **Sentiment Analysis Web Application**
Tools: NLTK, Python, Flask, Scikit-learn, Random Forest, Linear Regression

- Developed a full-stack sentiment classification web application using scikit-learn, TF-IDF vectorization, Flask API to analyze user comments with real time predictions
- Trained and optimized multiple classification models on Hugging Face dataset with feature engineering pipeline including chi-squared feature selection & cross validation

Jan 2025

- **Heart Disease Prediction Web Application**
Tools: Python, Pandas, Flask, JSON Web Tokens

- Developed a full-stack web application using MERN Stack, Flask API to predict an individual's risk of heart disease by analyzing 11 clinical parameters
- Implemented token-based authentication for secure login and sign-up

- **Voice Assisted AI chatbot on Raspberry Pi: Embedded AI System** *Dec 2023-Feb 2024*
  Tools: Python, Whisper, Google Gemini API, pyttsx3, Raspberry Pi

⌐ Developed a voice controlled chatbot integrating speech recognition (Whisper) and Gemini LLM on resource-constrained Raspberry Pi hardware

⌐ Implemented real time speech-to-text processing and text-to-speech response system with natural conversation flow

SKILLS

- **Programming Languages:** Python, JavaScript, C/C++, Bash
- **Web Technologies:** React.js, Node.js, Express.js
- **Database Systems:** MongoDB
- **Deep Learning & Machine Learning**: PyTorch, TensorFlow, Scikit-learn, OpenCV
- **Cloud Technologies:** AWS
- **Tools & Platforms:** Git, Linux, Raspberry Pi
- **Core Competencies**: Computer Vision, Supervised Learning, Web Developing

LEADERSHIP EXPERIENCE

•Marketing Director *2023-2024*
Electronic, Robotics & Innovation Club-KDU

•YPSL Representative 2024-2025
Institution of Engineering & Technology (IET)-KDU

•Program Team Member 2023-2024
IEEE Communications Society-KDU

•Education Team Member 2022-2023
Toastmasters Club-KDU

ADDITIONAL INFORMATION
Languages: English, Sinhala (Native)

REFERENCES

1. Eng (Mrs.) PN Karunanayake
   Senior Lecturer (Gr II)
   Department of Electrical, Electronic and Telecommunication Engineering
   General Sir John Kotelawala Defence University
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   Principal Data Analyst/Global HR
   IFS
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