AHAMED DHAHLAN

Sainthamaruthu, Sri Lanka ✉ ahameddhahlan3890@gmail.com 📱 +94 77 822 3527 in linkedin.com/in/Ahamed-Dhahlan github.com/Dhahlan3890

ABOUT ME

BSc(Hons) Engineering graduate with a keen interest in Artificial Intelligence, possessing strong programming skills and a passion for Machine Learning. Eager to contribute to a dynamic team, driven by the desire to leverage data for informed decision-making. Ready to bring enthusiasm, technical proficiency, and a fresh perspective to your organization.

EXPERIENCE

Trainee   August 2023 – Present
Mahaweli Authority of Sri Lanka, Victoria, Sri Lanka

- ✓ Led the design and implementation of a cutting-edge real-time dam simulation system, meticulously crafted to cater to the requirements of the Victoria Dam Control Room and Observation Platform.

PROJECTS

GloSign: Empowering Deaf Communication   February 2024
University of Ruhuna, Sri Lanka

- ✓ Developed GloSign, a comprehensive sign language translator system aimed at facilitating communication for deaf individuals.
- ✓ Utilized gesture recognition technology, speech-to-text algorithms, machine learning algorithms for lip reading, and wearable device integration.
- ✓ Achieved 96% accuracy in gesture recognition, resulting in seamless translation of sign language gestures into text and speech.

VicDamSimu: Victoria Dam Visualization Project   December 2023
Victoria, Sri Lanka

- ✓ Developed RealDamSim, a sophisticated simulation software enabling real-time visualization and control of Victoria Dam operations in Sri Lanka.
- ✓ Used Python for programming logic and simulation, integrating visualization tools for an interactive user interface, enhancing understanding of dam dynamics and water flow.

RealVision+   August 2023
Individual Project

- ✓ An Advanced Face Recognition and Expression Analysis Application.
- ✓ Developed a cutting-edge face recognition app capable of accurately identifying individuals and predicting their gender in real-time.
- ✓ Utilized deep learning algorithms to train the model on a diverse dataset, ensuring robust performance across various demographics and facial expressions.

Virtual FingerSense Control   September 2023
Individual Project

- ✓ A Virtual PC Controller Utilizing Hand Gestures for Cursor Movement and Volume Control.
- ✓ Implemented computer vision techniques to track and interpret the movement of the users index finger in real-time, translating it into precise cursor movements on the screen.

SKILLS

Technical Skills
- Machine Learning:
  - ✓ Implemented deep learning models for image classification, object detection, and natural language processing in various projects.
  - ✓ Experienced in using libraries such as TensorFlow, PyTorch, and Scikit-learn for machine learning tasks.
- Deep Learning:
  - ✓ Developed and trained deep neural networks for tasks like facial recognition and gesture recognition, utilizing CNNs, RNNs, and LSTMs.
- Computer Vision:
  - ✓ Implemented computer vision algorithms for real-time object tracking, image segmentation, and facial expression analysis.
  - ✓ Proficient in using OpenCV for image and video processing.
- Python:
  - ✓ Implemented complex algorithms, developed user interfaces, and integrated with databases in multiple projects.
  - ✓ Proficient in data structures, algorithms, and object-oriented programming.
- C++:
  - ✓ Developed embedded systems, and implemented algorithms for performance optimization.
- Arduino:
  - ✓ Developed hardware-software interactions for embedded systems, utilizing Arduino for prototyping and sensor integration.

Database Technologies
- SQL:
  - ✓ Experienced in designing, querying, and managing relational databases.
- NoSQL:
  - ✓ Familiar with NoSQL databases like MongoDB, and able to use them for data storage and retrieval.

Other Skills
- LLM (Large Language Models):
  - ✓ Understanding of large language models and their applications in natural language processing.
- React:
  - ✓ Experience in developing user interfaces using React framework.

EDUCATION

BSc (Hons) in Electrical and Information Engineering   March 2021 – March 2025
University of Ruhuna, Sri Lanka
- ✓ *GPA*: 3.85
- ✓ *Related coursework*: Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Embedded Systems, Data Structures and Algorithms, Object-Oriented Programming

High School degree   January 2017 – August 2019
Zahira College, Kalmunai, Sri Lanka
- ✓ *Marks*: 85
- ✓ *Related coursework*: Mathematics, Physics, Chemistry, Computer Science

ACHIEVEMENTS

- ✓ 2nd Runners up - Haxtreme 2.0 (Secured 2nd Runners up position with a prize amount of LKR 10k in Haxtreme 2.0).
- ✓ Top 10% in AWS Deep Racer (Secured position on top 10% worldwide in AWS DeepRacer which is conducted by AWS).

STRENGTHS

- ✓ Hard-working
- ✓ Analytical skills
- ✓ Problem solving
- ✓ Critical Thinking
- ✓ Team working
- ✓ Fast Learner

REFERENCES

References available upon request.