

# AHAMED DHAHLAN

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## SUMMARY

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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

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### 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

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### GloSign: Empowering Deaf Communication

- ✓ **University of Ruhuna, Sri Lanka** (February 2024)
- ✓ 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

- ✓ **Victoria, Sri Lanka** (December 2023)
- ✓ 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+

- ✓ **Individual Project** (August 2023)
- ✓ 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

- ✓ **Individual Project** (September 2023)
- ✓ 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

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### Technical Skills

- **Programming Languages:** Python, C++, Arduino
- **Machine Learning & Deep Learning:**
  - ✓ Experience with deep learning algorithms for image classification, object detection, and natural language processing.
  - ✓ Proficient in using libraries like TensorFlow, PyTorch, Keras, and OpenCV.
- **Computer Vision:**
  - ✓ Expertise in image processing, feature extraction, and object recognition.
  - ✓ Experience with libraries like OpenCV and MediaPipe.
- **Databases:** MongoDB, SQL, NoSQL
- **Other:** React, LLM, Relational Databases, Ladder Logic

### Strengths

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

## EDUCATION

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**BSc (Hons) in Electrical and Information Engineering**  
**University of Ruhuna, Sri Lanka**

March 2021 - March 2025

- ✓ GPA: 3.85 (Out of 4.0)

**High School Degree**  
**Zahira College, Kalmunai, Sri Lanka**

January 2017 - August 2019

- ✓ GPA: 92% (Out of 100)

## ACHIEVEMENTS

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- ✓ Secured 2nd Runners up position in Haxtreme 2.0, with a prize amount of LKR 10k.
- ✓ Ranked in the top 10% worldwide in the AWS DeepRacer competition conducted by AWS.

## REFERENCES

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- ✓ References available upon request.