

# AHAMED DHAHLAN

☎ (+94) 76 010 43 14 | ✉ ahameddhahlan3890@gmail.com | 🔗 LinkedIn | 🐙 Github

## SUMMARY

---

Dynamic ML Engineer skilled in Python, TensorFlow, and scikit-learn. Excels in crafting innovative solutions for NLP, computer vision, and predictive analytics. Collaborative team player committed to staying at the forefront of ML advancements.

## EDUCATION

---

**University of Ruhuna, Sri Lanka** March 2021 – Present  
*Bachelor of Science (Honors) - B.S. in Electrical and Information Engineering* Galle, Sri Lanka

**Zahira College, Kalmunai** January 2017 – August 2019  
*GCE Advanced Level and GCE Ordinary Level* Kalmunai, Sri Lanka

## PROJECTS

---

**LipLexa: AI-powered Lip Reading System for Videos** January 2024

- Engineered a real-time lip reading solution using **TensorFlow** and **OpenCV**, enhancing accessibility for the hearing impaired.
- Achieved accurate speech interpretation from visual cues with potential applications in security, assistive tech, and media analysis.
- Technology Used: **Python, TensorFlow, OpenCV, Matplotlib**

**Singlish GPT: Language Model for Sinhala in English Letters** July 2024

- Developed a GPT model for Singlish text processing and generation using **mT5** and various libraries.
- Technology Used: **Python, Hugging Face, transformers, PyTorch, Aksharamukha, Google Gemma**

**RealVision+: An Advanced Face and Expression Analysis Application.** September 2023

- Developed a cutting-edge face recognition app capable of accurately identifying individuals and predicting their gender in real-time.
- Technology Used: **Python, ML, OpenCV, Matplotlib**

**Intrusion Detection System using Machine Learning: Enhancing Network Security** July 2024

- Developed an advanced Intrusion Detection System (IDS) leveraging machine learning techniques to detect and mitigate network intrusions, providing real-time monitoring and alerting capabilities.
- Utilized both supervised and unsupervised learning approaches to analyze network traffic and identify anomalous behavior, ensuring comprehensive security coverage.
- Technology Used: **Python, scikit-learn, TensorFlow, Flask/Django, pandas, numpy, SQL**

**CodeForgeAI: Code Generation from Webpage Screenshots** May 2024

- Created a tool to generate code from webpage screenshots with real-time previews, enhancing coding efficiency.
- Technology Used: **Python, OpenCV, TensorFlow, Flask/Django, JavaScript, HTML/CSS**

**GloSign: Empowering Deaf Communication** February 2024

- Developed a sign language translator achieving 96% accuracy in gesture recognition, facilitating communication for the deaf.
- Integrated gesture recognition, speech-to-text algorithms, and wearable devices.
- Technology Used: **Python, C++, Arduino, ML**

## EduZone: An Innovative E-learning Platform - Group Project

July 2024

- Developed a comprehensive e-learning platform that includes courses and projects, utilizing React for frontend development and django for the backend.
- Integrated Python and Django to handle server-side logic and manage database interactions efficiently.
- Technology Used: React, Node.js, Python, Django, JWT token, Machine Learning

## WeedSense: Automated Weed Removal

February 2024

- Achieved 93% accuracy in automated weed detection using SVM classification on preprocessed image data.
- Technology Used: **Python, Arduino, ML, Sensors**

## GestureGear: Hand-Gesture Controlled Car Racing Game

January 2024

- Implemented real-time hand tracking and gesture recognition for intuitive game control.
- Technology Used: **Python, OpenCV, Mediapipe, Matplotlib**

## TECHNICAL SKILLS

---

**Languages:** C/C++, Python, Javascript

**Libraries :** Huggingface, Transformers, Pandas, Numpy, Matplotlib, Seaborn, TF-IDF, TensorFlow, PyTorch, Pygame, Tkinter

**Web Dev Tools:** Nodejs, VScode, Git, Github

**Frameworks:** ReactJs , Django

**Databases:** MongoDB, Firebase, Relational Database(mysql)

**Soft Skills:** Problem Solving, Self-learning, Presentation, Adaptability, Critical Thinking

## CERTIFICATES

---

- Certificate in Introduction to Web Development with HTML, CSS, JavaScript
- Certificate in Introduction to Cloud Computing
- Certificate in Introduction to Deep Learning & Neural Networks with Keras
- Certificate in Machine Learning with Python
- Certificate in Python for Data Analysis: Pandas & NumPy
- edX Verified Certificate for Data Science: Machine Learning
- Certificate in SystemVerilog for ASIC/FPGA Design & Simulation

## ACHIEVEMENTS

---

**Participant, Commercial Bank Hackathon, Commercial Bank**

June 2024

**2nd Runners up, Haxtreme 2.0, IEEE Society**

November 2023

**Top 10%, AWS Deep Racer, AWS**

August 2023

## REFEREES

---

**Dr. Kushan Sudheera**

Senior Lecturer

Department of Electrical and Information Engineering

Faculty of Engineering

University of Ruhuna

Galle, Sri Lanka

+94719693164

kushan@eie.ruh.ac.lk