Ahamed Dhahlan

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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 in Engineering (Honors) - Electrical and Information — *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
- Created a state-of-the-art lip reading application with TensorFlow and OpenCV; increased accessibility for hearing impaired by 70% and achieved 40% faster processing speeds
- Developed an advanced algorithm for accurate speech interpretation from visual cues, with applications in security, assistive technology, and media analysis, resulting in a 50% increase in detection reliability.
- Technology Used: **Python, TensorFlow, OpenCV, Matplotlib**

Singlish GPT: Language Model for Sinhala in English Letters — July 2024
- Implemented 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
- Trained 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
- Engineered an advanced real-time hand tracking and gesture recognition system, achieving a 40% increase in user interaction accuracy and elevating overall gameplay experience
- 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), Apache Spark
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   Augest 2023

REFERENCES

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