Abdul Jabbar Ahamed Shahmi

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PROFILE

Final-year undergraduate in Electrical and Information Engineering, proficient in Artificial Intelligence and Machine Learning, with hands-on experience in supervised learning, deep learning, and traditional ML models. Skilled in using Python, TensorFlow, and scikit-learn to develop and optimize AI models. Actively working on freshness and ripeness detection and prediction of produce using traditional models. Interested in applying skills through an AI/ML internship focused on real-world impact and research-driven innovation.

EXPERIENCE

Internship : Sri Lanka Rupavahini Corporation   Oct 2023 – Jan 2024

- Completed a 3-month internship focusing on Telecommunications, ICT, and Network infrastructure.
- Gained practical experience with network and system infrastructure, configurations, and communication protocols.
- Collaborated with engineering teams, enhancing professional communication and problem-solving skills.
- Strengthened technical foundations that now support my transition into AI/ML-focused projects.

PROJECTS

Facial Expression Recognition (CNN)   Apr 2025

- Developed a deep learning model to classify facial expressions into categories like happy, sad, angry, etc.
- Used image preprocessing, class balancing, and convolutional architecture.
- Technology Used: Python, TensorFlow, Keras, OpenCV

ASL Gesture Recognition (Custom CNN on Image Data)   Apr 2025

- Implemented a CNN model to recognize ASL alphabets from RGB images.
- Enabled real-time ASL recognition from webcam feed using OpenCV for hands-on gesture interaction.
- Technology Used: Python, PyTorch, OpenCV

YOLOv5 Object Detection: Apple Detection   Mar 2025

- Trained a YOLOv5 model on a custom apple dataset for object detection.
- Deployed model locally and visualized predictions using Streamlit.
- Technology Used: Python, YOLOv5, OpenCV, Streamlit

Customer Credit Scoring and Loan Default Predictions   Feb 2025

- Developed an ML system to predict credit scores (regression) and loan default risk (classification).
- Technology Used: Python, scikit-learn, pandas, Matplotlib

Cat and Dog Classification :   Sep 2024

- Developed classification model to differentiate between cats and dogs using the Cats vs Dogs dataset.
- Applied convolutional neural networks (CNNs) for feature extraction and image classification.
- Technology Used: Python, TensorFlow, Keras, OpenCV

Digit Recognition using MNIST :   Sep 2024

- Created a digit recognition model leveraging the MNIST dataset for handwritten digit classification.
- Trained and tested the model using deep learning techniques to achieve high accuracy.
- Technology Used: Python, TensorFlow, Keras, Matplotlib

Spam Email Detection :   Sep 2024
- Developed a classification model to distinguish between spam and non-spam emails.
- Utilized Natural Language Processing (NLP) techniques for feature extraction and text preprocessing.
- Technology Used: Python, scikit-learn, pandas, WordCloud

Chronic Disease Detection: Classification Project :   Aug 2024
- Utilized Python and its libraries, including scikit-learn and pandas, for data preprocessing, feature extraction, and model training.
- Technology Used: Python, scikit-learn, pandas, Matplotlib

Boston House Price Prediction :   Aug 2024
- Developed a machine learning model to predict house prices in Boston using supervised learning techniques.
- Performed data preprocessing, feature selection, and hyperparameter tuning to improve model accuracy.
- Technology Used: Python, scikit-learn, pandas, Matplotlib

EDUCATION

Faculty of Engineering, University of Ruhuna, Sri Lanka   Mar 2021 – Present
Bachelor of Science (Honors) - B.Sc. in Electrical and Information Engineering   *Galle, Sri Lanka*
- Relevant Coursework: Datastructure and Algorithms, WebApplication Module, Software Project

Zahira College, Kalmunai   Jan 2017 – Aug 2019
GCE Advanced Level and GCE Ordinary Level   *Kalmunai, Sri Lanka*

CERTIFICATIONS

Artificial Intelligence Foundations - LinkedIn Learning: Machine Learning, Artificial Intelligence

Getting Started with Neural Networks - Analytics Vidhya: Deep Learning, Convolutional Neural Network

Supervised Machine Learning - Coursera: Python Programming, Decision Tree

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript, HTML, CSS

Libraries and Frameworks: PyTorch, TensorFlow, OpenCV, Scikit-learn, Streamlit

Tools: Google Colab, VS Code, Hugging Face, Jupyter Notebook

Concepts: Machine learning, Convolutional Neural Network, Transfer Learning, Model Deployment

PROFESSIONAL SKILLS

Leadership Skills: Team Player, Communication, Interpersonal Skills

Project Management: Flexibility, Self-Motivated, Workload Balancing

Creative Skills: Creative Problem Solving, Creative Writing, Prototyping

NON-RELATED REFEREES

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