

Ahamed Safnas

✉ safnas2042ahamed@gmail.com ☎ +94743750366 📍 Ampara, Sri lanka 🔗 ahamedsafnas.me
🌐 www.linkedin.com/in/ahamed-safnas-8a968723b 🐙 github.com/Ahamed-Safnas

Profile

Recently BEng graduated in Computer and Information Systems Engineering with a strong academic foundation experience in Machine Learning, Artificial Intelligence and Data Science. Proven ability to conduct research, analyze data, python programming and communicate effectively through internships and volunteer work.

EDUCATION

B.E. Computer & Information System Engineering, NED University 2021 – 2025
CGPA: 3.7/4.0, (Merit-based Allama Iqbal Scholarship recipient)
Courseworks: OOP, Data Structure & Algorithms, AI, ML(Deep learning, Neutral Network), Calculus, Linear Algebra & Differential Equation, Probability & Statistics, Discrete Structure, Computer Vision, Bio-informatics

GCE A/L - Physical Science, D.S.Senanayake College 2017 – 2019
Z-score: 1.8025

EXPERIENCE

Data Science Intern, NED University 09/2024 – 12/2024

- Analyzed 40,000+ real-time PM2.5 and PM10 air quality records using **Python**, performing data cleaning, feature engineering, and visualization.
- Built predictive models (**Linear Regression, ARIMAX, FB Prophet**) to forecast pollutant trends with performance evaluation using RMSE, MAE, and R².
- Delivered actionable insights through **Power BI** dashboards and visual reports to support environmental monitoring.

Python Developer Intern, NCL-NED 04/2023 – 07/2023

- Developed a **REST API** for real-time text extraction from images using **OpenCV**
- Tested and validated the API with **Postman** to ensure accuracy and seamless user experience.
- Deployed the solution on **Google Cloud Platform (GCP)**, optimizing performance and response time.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

AI/ML Frameworks & Tools: TensorFlow, Keras, OpenAI API, Hugging Face Transformers, LangChain, RAG, Pandas

MLOps & Deployment: Git, Google Cloud Platform, AWS, Jupyter, Colab, FastAPI, REST APIs

Database: PostgreSQL, MySQL, MongoDB

Web & App Integration: React.js, Next.js, Node.js, Express.js

Soft Skills: Problem Solving, Team Collaboration, Analytical thinking, Communication, Rapid Learning, Critical Analysis, Adaptability

Model Evaluation & Tuning: Cross-validation, Hyperparameter Tuning, Model Metrics

PROJECTS

Potato Disease Classification with Deep Learning, Python

- Developed a **CNN-based deep learning model** to classify potato leaf diseases (*early blight, late blight, healthy*) using **TensorFlow**, improving early disease detection for farmers
- Collected and preprocessed image datasets, applied **data augmentation** (rotations, flips, contrast adjustments) to enhance model robustness.

- Built a **FastAPI backend** with TensorFlow Serving for scalable inference and deployed it using **Docker** for containerization.
- Optimized model for edge devices by converting to **TensorFlow Lite** (quantization for faster, smaller models).
- Designed a **React.js web app** for image uploads and a **React Native mobile app** for real-time field predictions.
- Deployed the solution on **Google Cloud Platform (GCP)**

AI Image Generator, Python

- Built a **Streamlit** app to create product ad images from text or photos using **Bria's image generation API**
- Added features like background removal, shadow effects, lifestyle scenes, and CTA overlays
- Designed a clean, customizable UI for quick image editing and download

Loan Approval Prediction Web App, Python, FastAPI

- Developed an ERP-style ML tool for automating loan approvals.
- Built ML models (**Logistic Regression, Decision Tree, Random Forest**) achieving 86.18% accuracy.




House Price Prediction, Python, Scikit-learn

- Preprocessed housing datasets and trained a Random Forest Regressor.
- Achieved superior performance compared to linear models using RMSE and R² metrics

Real-Time Object Detection App, Python

- Developed a real-time object detection web app with **YOLOv8** and **Flask**
- Streamed annotated webcam video in-browser with a clean, customizable interface.

CERTIFICATES

- AI Fundamentals 
- Data Scientist Associate 
- Data Analyst Associate 

LANGUAGES

English, Tamil, Sinhala, Urdu

Extracurricular Activities & Memberships

- University-level Cricketer
- Member, IEEE Student Branch
- Member, IEEE WIE Society

REFERENCES

Dr. Maria Waqas, *Assistant Professor*, NED University of Engineering & Technology, Karachi
mariaaw@neduet.edu.pk

Dr. Urooj Ainuddin, *Assistant Professor*, NED University of Engineering & Technology, Karachi
uroojain@neduet.edu.pk