Aakif Ahamed Hamza

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Colombo, Sri Lanka

ABOUT ME

Data Science undergraduate at SLIIT with a strong foundation in data science and hands-on experience in data analysis, machine learning, and statistical modeling. I am deeply engaged in extracting meaningful insights from complex datasets, continuously learning and adapting to emerging tools and technologies. With solid knowledge of Java, Python, R, and SQL, I am passionate about applying data-driven approaches to solve real-world problems and building scalable, intelligent systems.

SKILLS

- **Programming Languages:** C, C++, Java, Python, Kotlin, SQL
- **Web Technologies:**
  - **Frontend** - HTML, CSS, JavaScript, React.js
  - **Backend** - Node.js, Express.js, PHP
- **Database Systems:** MongoDB, MySQL
- **Data Science & Machine Learning:** Visual Studio, Power BI, R Studio, Jupyter Notebook, Google Colab
- **Cloud Technologies:** Amazon Web Service (AWS), Microsoft Azure
- **DevOps & Version Control:** Git, GitHub
- **Other Tools & Technologies:** Postman, Visual Studio Code, IntelliJ IDEA

EDUCATION

- **Sri Lanka Institute of Information Technology (SLIIT)** *Sep 2022 - Present*
  BSc(Hons) Information Technology Specialist In Data Science Malabe, Sri Lanka
  - GPA: 3.26/4.00

- **Ak/Al - Hamra Maha Vidyalaya** *2021*
  Physical Science Oluvil, Sri Lanka
  - Physics: C
  - Chemistry: C
  - Combined Maths: C

PROJECTS

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  Breast Cancer Prediction Tool – ML Project *Dec 2025*
  React JS, Python (Scikit-learn, FastAPI), Tailwind CSS, Axios, Recharts [ ]
  * Engineered a full-stack diagnostic application using **React JS** and **FastAPI** to classify breast mass tumors as malignant or benign.
  * Designed a component-based UI with modular forms for clinical data entry and dynamic result displays to enhance clinician workflow.
  * Implemented real-time data fetching using **Axios and React Hooks**, enabling instant diagnostic predictions without page reloads.
  * Optimized a classification engine using **SVM and Random Forest**, fine-tuned to achieve high recall and minimize false negatives in medical diagnosis.
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  Rainfall Prediction - ML Project *Dec 2025*
  Python (Pandas, Scikit-learn, XGBoost), FastAPI, Matplotlib [ ]
  * Developed an end-to-end machine learning pipeline to predict rainfall occurrence and intensity based on historical meteorological datasets.
  * Conducted extensive **Exploratory Data Analysis (EDA)** to identify complex correlations between variables like temperature and humidity.
  * Engineered robust preprocessing workflows including mean/mode imputation and numerical scaling to ensure model stability.
  * Validated models using **RMSE, MAE, and R^2** metrics to ensure high forecasting accuracy for disaster preparedness.

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Hotel Booking Analysis – DWBI Project
May 2025

SQL Server, SSIS, SSAS, Power BI, Excel
[Ω]

* Implemented a full-scale **DWBI solution** using SQL Server, featuring a dimensional warehouse with fact and dimension tables.
* Developed **ETL pipelines** in SSIS to integrate multi-source data and created **SSAS cubes** for complex OLAP operations.
* Built interactive Power BI reports with cascading slicers and drill-throughs for actionable insights into hotel booking patterns.

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Shutter Space - Social Media Platform
March 2025

Spring Boot, MySQL, React
[Ω]

* Developed a **Challenge Creation Module** allowing users to create and participate in interactive photo challenges.
* Implemented photo upload and like functionality, alongside an **award allocation system** to recognize top-voted users.
* Applied secure data handling and validation methods to maintain system integrity and boost user participation.

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Food Production Management System (NELCO)
Sept 2024

MERN Stack (MongoDB, Express, React, Node.js)
[Ω]

* Developed a **Resource Management System** for tracking chemical usage and stock levels using MongoDB.
* Created a vehicle resource management module to ensure efficient allocation and scheduling of production transport.
* Applied data reporting methods to analyze resource utilization and support management decision-making.

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Remind Me Mobile App
Oct 2024

Kotlin, Android Studio, SharedPreferences
[Ω]

* Developed a task reminder system using **Kotlin** and **Android Studio** to enhance daily productivity.
* Implemented **SharedPreferences** for local persistent storage, achieving reliable data retention for user reminders.

CERTIFICATIONS

◦ **Python OOP:Object Oriented Programming in Python(Udemy)**	*November 2025*
◦ **OCI AI Foundations (Oracle)**	*August 2025*
◦ **OOPs in Java (Great Learning)**	*December 2023*
◦ **Front End Development - HTML (Great Learning)**	*December 2023*

ADDITIONAL INFORMATION

Languages: Sinhala, English, Tamil Native

REFERENCES

1. **Person 1**
   Job Title, Department
   Organization/Institution Name
   Email: email1@example.com
   Phone: +X-XXX-XXX-XXXX
   Relationship: [e.g., Thesis Advisor, Manager, etc.]

2. **Person 2**
   Job Title, Department
   Organization/Institution Name
   Email: email1@example.com
   Phone: +X-XXX-XXX-XXXX
   Relationship: [e.g., Thesis Advisor, Manager, etc.]