AAKIF AHAMED H

Data Science Student | Machine Learning Enthusiast | Insight Seeker

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in Aakif Ahamed Hamza

💻 Aakif Portfolio

📍 Colombo, Sri Lanka

⬛ Aakif Ahamed Hamza

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.

EDUCATION

BSc(Hons) Information Technology Specialist In Data Science

Sri Lanka Institute of Information Technology (SLIIT)
GPA – 3.26
2022 – Present

Physical Science

Ak/Al – Hamra Maha Vidyalaya
Physics: C
Chemistry: C
Combined Maths: C
2021

TECHNICAL SKILLS

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

PROJECTS

Breast Cancer Prediction Tool – ML Project
Dec 2025

React JS, Python (Scikit-learn, FastAPI), Tailwind CSS, Axios, Recharts

- Developed a full-stack breast tumor diagnostic web application using React.js and FastAPI to classify breast mass tumors as malignant or benign. Built a clean, component-based UI with modular clinical data entry forms and dynamic result displays, improving usability and workflow. Integrated real-time predictions using Axios and React Hooks, enabling instant results without page reloads. Optimized the ML classification engine using SVM and Random Forest, focusing on high recall to reduce false negatives in medical diagnosis.

⬛ https://github.com/Aakif-byte/breast-cancer.git

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 using historical meteorological data. Performed detailed EDA to uncover key relationships between weather variables such as temperature and humidity. Built a reliable preprocessing workflow with mean/mode imputation and feature scaling to improve model stability. Evaluated forecasting performance using RMSE, MAE, and R^2 to ensure accurate predictions for disaster preparedness and planning.

⬛ https://github.com/Aakif-byte/rainfall_new_p.git

Hotel Booking Analysis – DWBI Project
May 2025

SQL Server, SSIS, SSAS, Power BI, Excel

- Implemented a full-scale DWBI solution using SQL Server, designing a dimensional data warehouse with well-structured fact and dimension tables. Developed automated ETL pipelines using SSIS to integrate data from multiple sources and built SSAS cubes to support advanced OLAP analysis. Created interactive Power BI dashboards with cascading slicers and drill-through features to deliver actionable insights into hotel booking trends and customer behavior.

⬛ https://github.com/Aakif-byte/Data-Warehousing-Business-Intelligence-Project-.git

Shutter Space - Social Media Platform   *March 2025*

Spring Boot, MySQL, React

- Developed a Challenge Creation Module that enables users to create and join interactive photo challenges. Implemented key features such as photo uploading, liking, and an award allocation system to recognize top-voted participants. Ensured secure data handling with proper validation to maintain platform integrity and improve overall user engagement.

https://github.com/Iqrayusuf/Shutter_Space.git

Food Production Management System (NELCO)   *Sept 2024*

MERN Stack (MongoDB, Express, React, Node.js)

- Developed a Resource Management System using MongoDB to track chemical usage and monitor stock levels efficiently. Built a vehicle resource management module to support effective allocation and scheduling of production transport resources. Implemented reporting features to analyze resource utilization and provide data-driven insights for better management decision-making.

https://github.com/Aakif-byte/Resource-Management-System.git

Remind Me Mobile App   *Oct 2024*

Kotlin, Android Studio, SharedPreferences

- Developed a task reminder mobile application using Kotlin in Android Studio to support daily productivity and time management. Implemented SharedPreferences for persistent local storage, ensuring reliable saving and retrieval of user reminders across app sessions.

https://github.com/Aakif-byte/Reminder-Mobile-Application.git

CERTIFICATIONS

- Python OOP: Object Oriented Programming in   *November 2025*

  Python(Udemy)

- OCI AI Foundations (Oracle)   *August 2025*

- OOPs in Java (Great Learning)   *December 2023*

- Front End Development – HTML (Great Learning)   *December 2023*