Ahmed Aadhil

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SUMMARY

Motivated B.Sc. (Hons) Data Science student (GPA 3.49) with hands-on experience in **Python, SQL, computer vision, and cloud-based systems**. Built end-to-end projects including a **Traffic Red-Light Violation Detection System**, **Cloud-Based Hostel Entry/Exit Management System**, and **Face Recognition System** using tools like **OpenCV, NumPy, scikit-learn, MySQL, and Firebase/AWS**. Strong foundation in **statistical modeling, machine learning, data warehousing, and NLP**, with proven ability to design, implement, and deploy analytical solutions. Seeking a **Data Science / Machine Learning / Data Engineering / Data Analytics internship** to apply **predictive analytics, data visualization, and cloud skills** to real-world business problems.

PROJECT

Traffic Red-Light-Running Violation Detection System

www.google.com/search?q=https://github.com/AadhilAslam88/Traffic_Red-Light-Running_Violation_Detection.git · July 2025 – October 2025
· Developed a **real-time face recognition application** using Python and OpenCV for face detection and identification.
· Integrated with an **online MySQL database** to manage user profiles and recognition logs (user ID, time, recognition status).
· Demonstrated **full-stack development** by combining front-end logic (image capture, recognition) with back-end data storage and retrieval.
· Showcased understanding of **machine learning, computer vision, and database management** in a practical security use case.

Retail Analytics Dashboard

August 2025 – September 2025
· Built a **Power BI dashboard** using transactional retail data to analyze **sales trends, top products, and revenue by category/region**.
· Wrote **SQL queries** for data cleaning, aggregation, and feature extraction to support visual analytics and KPIs.
· Demonstrated skills in **data wrangling, BI reporting, and decision-support dashboards**.

Cloud-Based Hostel Entry-Exit Management System

www.google.com/search?q=https://sltc-unigo.netlify.app/ · February 2025 – May 2025
· Designed and proposed a **cloud-based hostel management system** for real-time monitoring of student entry/exit activities.
· Implemented **QR code–based check-in/out** using university ID cards to reduce manual logging and improve accuracy.
· Utilized **cloud databases (Firebase/AWS)** for secure, scalable data storage and **real-time dashboard analytics** for wardens/admins.
· Built a **notification system** to alert administrators of suspicious or unauthorized exits, enhancing **security and accountability**.

Face Recognition System

www.google.com/search?q=https://github.com/AadhilAslam88/facerecognition · May 2024 – June 2024
· Developed a **real-time face recognition application** using Python and OpenCV for face detection and identification.
· Integrated with an **online MySQL database** to manage user profiles and recognition logs (user ID, time, recognition status).
· Demonstrated **full-stack development** by combining front-end logic (image capture, recognition) with back-end data storage and retrieval.
· Showcased understanding of **machine learning, computer vision, and database management** in a practical security use case.

EDUCATION

B.Sc. (Hons) in Data Science

SLTC Research University (Sri Lanka Technological Campus) · Colombo, Western · 2027 · 3.49
· **Key Coursework:** Python Programming, Data Structures & Algorithms, Statistics, Linear Algebra, Machine Learning, SQL, Data Visualization, Data Warehousing, Natural Language Processing, Cloud Computing, Cloud Security & Privacy.
· **Highlighted Projects:** Face Recognition (OpenCV + ML), Traffic Red-Light Violation Detection, QR-based Hostel Entry/Exit System, Retail Analytics Dashboard (Power BI + SQL).
· **Academic Skills Developed:** Pandas, scikit-learn, OpenCV, SQL, Power BI, Git, Jupyter, algorithmic problem-solving, documentation, and team presentations.

CERTIFICATIONS

Codemania v5.0 – Algorithmic Coding Competition – IEEE Computer Society Student Branch Chapter of SLTC (Sri Lanka Technology Campus)

2025

2025 R Programming Bootcamp – Udemy

2025

Numpy For Data Science – Udemy

2025

Artificial Intelligence fundamentals – Mind Luster

2025

SQL Mastery – Udemy

2024

Mastering Version Control with Git and GitHub! – Microsoft Learn Student Ambassador Event

2024

COURSEWORK

Natural Language Processing (CCS3356)

2025 · Text Mining, Tokenization, Sentiment Analysis, Deep Learning for Text, Python/NLTK.

Data Warehousing (CCS3307)

2025 · ETL/ELT Processes, Data Cube Modeling (Star/Snowflake), Business Intelligence (BI), Data Aggregation.

Cloud Security And Privacy (CCS4322)

2025 · Data Governance, Confidentiality, Compliance, Access Control in cloud systems.

Big Data (CCS3309)

2025 · Big Data ecosystems, Distributed Processing (concepts of Hadoop/Spark), Large-scale data storage and ETL.

Machine Learning (CCS4340)

2025 · Supervised & Unsupervised Learning, Model Evaluation, Feature Engineering, Practical ML with Python.

Discrete Mathematics (SMA2307)

2025 · Logic, Sets, Functions, Relations, Graphs; foundations for algorithms and theoretical CS.

Business Intelligence / Business Analytics (CCS3342)

2025 · BI concepts, KPI design, Dashboarding, Decision Support Systems, Reporting for business stakeholders.

Data Structures and Algorithms (CCS2300)

2024 · Algorithmic Efficiency, Sorting, Searching, Graph Algorithms, Optimization.

Data Technologies (CCS1304)

2024 · Relational Databases, SQL (DDL/DML), Data Modeling, Data Integrity.

Programming with Vectors and Matrices (CCS2310)

2024 · Linear Algebra, NumPy, Vectorized Operations, Mathematical Modeling.

SKILLS

TECHNICAL SKILLS
· **Programming Languages:** Python, SQL, R, Java, C
· **Data Science & Machine Learning:** NumPy, pandas, scikit-learn, OpenCV, ML algorithms (classification, regression, clustering), feature engineering, model evaluation, NLP basics, OCR (easyOCR, pytesseract), statistics, probability
· **Big Data & Data Engineering:** Big Data concepts (Hadoop/Spark ecosystem), ETL/ELT, Data Warehousing, Star/Snowflake schema design
· **Business Intelligence & Analytics:** Power BI, KPI design, dashboarding, business reporting, basic data storytelling
· **Databases:** MySQL, relational modeling, SQL (DDL/DML, joins, aggregations)
· **Cloud & Security:** Cloud Computing fundamentals (AWS/Firebase concepts), Cloud Security & Privacy, access control, data governance basics
· **Tools & Web:** Git, GitHub, Jupyter Notebook, VS Code, HTML, CSS
SOFT SKILLS
· Problem-Solving & Critical Thinking
· Teamwork & Collaboration
· Leadership & Initiative (team projects & competitions)
· Time Management & Adaptability
· Attention to Detail
· Fluent in English