Abdullah Al Marjuc Talha

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in ABDULLAH AL MARJUC TALHA   ⌗ Abdullah Al Marjuc Talha

SUMMARY

Final-semester CSE student with a strong interest in **data analytics, data-driven problem solving, and process optimization**. Skilled in SQL, Python, Excel, and foundational data science tools. Hands-on experience in customer communication, record management, and project coordination. Completed academic and personal projects involving real-time data processing, system automation, and database-driven applications. Motivated to build a career as a Data Analyst and ready for on-campus assessment and recruitment opportunities.

Education

AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH   *JAN 2022 – PRESENT*
BSc in Computer Science and Engineering

- Major in Information Systems.
- Research on " Exploring the Impact of Artificial Intelligence on Personalized Education."
- Thesis on "Real-Time Multimodal Confidence Detection System."

CANTONMENT PUBLIC SCHOOL AND COLLEGE MOMENSHAHI   *2018 – 2020*
Higher School Certificate (Science)

Cisco Networking Academy program   *JAN 2022 – PRESENT*

- IT Essentials: PC Hardware and Software.
- Data Analytics Essentials.

Experience

Executive – Strategic Member   *Dhaka*
ESAB AIUB Unit Face   *JUNE 2025 - PRESENT*

Currently, I am a strategic member and web lead of ESAB. Previously, I served ESAB as a volunteer for about 1 year and 7 months.

Crew Facilitator   *Dhaka*
Space Innovation Camp   *JULY 2025 - PRESENT*

Coordinated with team members to ensure smooth implementation of camp activities. Assisted in registration of participants and handling logistical details for various events.

Co-Founder   *Dhaka*
Prime Corner - Online Clothing Business   *JULY 2023 - PRESENT*

Co-founded and successfully managed an online clothing brand. Resolved customer queries and coordinated logistics, ensuring a seamless customer experience from order to delivery.

Former General Member   *Dhaka*
AIUB Environment Club   *JUNE 2023 – JUNE 2024*

I worked with the AIUB Environment Club to raise awareness about environmental protection.

Volunteering Experience

- The Second Space Exploration Olympiad as a Crew Facilitator on 01 August 2025.
- JLPT (Japanese Language Proficiency Test) Exam, 2025.
- Bangladesh Physics Olympiad, 2024 – 2025.
- Research Assistant, ADPC-ICARE Innovation Fund Project, 2024.

Projects

Real-Time Multimodal Confidence Detection System(Thesis Project) *GitHub* ↗

- Built a real-time confidence detection system combining facial landmarks, hand gestures, and voice-based pitch analysis to measure confidence more accurately.
- Used Mediapipe, JavaScript, HTML, CSS, and the Web Audio API to capture and process multimodal inputs from live video and audio streams.
- Designed an interactive interface that displays confidence levels dynamically as the user speaks or presents.
- Integrated Mediapipe's face and hand tracking modules with a custom pitch-detection pipeline to enhance prediction accuracy.
- Achieved almost 94.97% accuracy through multimodal signal processing and optimized real-time performance.

Library Management *GitHub* ↗

- Developed a web-based system using HTML, CSS, PHP, XML, and MySQL to manage library operations.
- Implemented features such as book catalog, member registration, issue/return tracking, and search functionality.
- Designed a responsive front-end with HTML and CSS and integrated it with a PHP-based backend.
- Managed database operations in MySQL to store and update book and member records.
- Improved efficiency by reducing manual work through automated record management.

Pharma Care Portal Management *GitHub* ↗

- Developed a web-based pharmacy management portal using HTML, CSS, PHP, and MySQL.
- Implemented features such as medicine catalog, stock control, customer registration, and purchase tracking.
- Designed a responsive front-end and integrated it with a PHP–MySQL backend for seamless data flow.
- Automated real-time inventory updates to minimize errors and improve operational efficiency.

Analysis and Preprocessing of Network Traffic for Cybersecurity *GitHub* ↗

- Analyzed raw network traffic data to identify anomalies, malicious behaviors, and potential security threats.
- Performed data cleaning, preprocessing, feature extraction, and transformation using R (tidyverse, dplyr, ggplot2).
- Processed packet-level data by handling missing values, filtering noise, and engineering meaningful features for analysis.
- Conducted exploratory data analysis (EDA) in R to visualize traffic patterns and detect unusual activities.
- Prepared structured and enriched datasets suitable for intrusion detection and other cybersecurity modeling tasks.

Mobile Analytics Data Warehouse & Market Analysis *GitHub* ↗

- Designed a normalized Star Schema architecture to transform raw smartphone data into structured Dimension and Fact tables, improving query efficiency.
- Conducted advanced descriptive and comparative analysis on 980+ smartphone records to identify market trends, pricing strategies, and brand performance.
- Utilized SQL Common Table Expressions (CTEs) and Window Functions (e.g., ROW_NUMBER()) to calculate market share, price-to-performance ratios, and multi-feature rankings.
- Analyzed key hardware correlations, such as processor speed vs. price and battery capacity across different Operating Systems.

Skills

Technical Skills:

- Database Management: Microsoft SQL Server, MySQL Data Science & Analytics: R, Python
- Programming: C, C++, Java, Python
- Web Development: HTML, CSS, JavaScript, PHP
- Tools: Power BI(Beginner) Git, Canva

Data Analysis & Problem Solving: Skilled in cleaning, preprocessing, and analyzing structured and unstructured data. Experience working with network traffic datasets, multimodal data, and real-time processing.

Organization & Workflow Management: Strong ability to plan tasks, maintain detailed documentation, and manage project pipelines. Experienced in event coordination and team collaboration through university and technical club activities.

Certifactions and Awards

Best Poster Award (Category: Software), Thesis Day: Summer 2024–2025, American International University – Bangladesh, December 4, 2025

- ○ Awarded for presenting the most effective visual representation of research findings during the Department of Computer Science Thesis Day.

Link to All Certificates ☒