



Abdullah Al Marjuc Talha

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in ABDULLAH AL MARJUC TALHA 🌐 Abdullah Al Marjuc Talha

Summary

Final-semester Computer Science and Engineering student specializing in Information Systems. Recently defended undergraduate thesis on 'Real-Time Multimodal Confidence Detection,' achieving the Best Poster Award (Software Category) at Thesis Day 2025. Proficient in **Data Science, MIS, and SQA**, with a strong track record in academic research and leadership within university organizations.

Education

AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH <i>BSc in Computer Science and Engineering (Major: Information Systems)</i> <ul style="list-style-type: none">CGPA: 2.95 / 4.00Status: Completing all academic courses in the current semester (Final Semester).Awards: Best Poster Award (Software Category), Thesis Day 2025.Relevant Modules: Data Science, Research Methodology, Software Quality Assurance (SQA), Management Information Systems.	<i>JAN 2022 – PRESENT</i>
CANTONMENT PUBLIC SCHOOL AND COLLEGE MOMENSHAHI <i>Higher School Certificate (Science)</i>	<i>2018 – 2020</i>

Leadership & Experience

Co-Founder <i>Prime Corner - Online Clothing Business</i> <ul style="list-style-type: none">Established and managed a digital-first retail business, overseeing end-to-end operations from procurement to delivery.Utilized data analytics to track inventory turnover and sales trends, ensuring optimized stock levels.	<i>Dhaka</i>	<i>JULY 2023 - PRESENT</i>
Executive – Strategic Member <i>ESAB AIUB Unit Face</i> <ul style="list-style-type: none">Lead strategic planning for club initiatives and manage web-based platforms.Previously served as a volunteer (2023–2025), organizing technical workshops and large-scale events.	<i>Dhaka</i>	<i>JUNE 2025 - PRESENT</i>
Crew Facilitator <i>Space Innovation Camp</i> <ul style="list-style-type: none">Coordinated logistics and team activities for large-scale participant events.	<i>Dhaka</i>	<i>JULY 2025 - PRESENT</i>
Volunteering Experience <ul style="list-style-type: none">The Second Space Exploration Olympiad as a Crew Facilitator on 01 August 2025.Research Assistant, ADPC-ICARE Innovation Fund Project, 2024.		

Academic Projects

i. Real-Time Multimodal Confidence Detection System (Thesis Project) <ul style="list-style-type: none">Built a real-time system combining facial landmarks, hand gestures, and voice pitch to measure human confidence levels using Python, JavaScript & MediaPipe.Achieved 94.97% accuracy through multimodal signal processing and optimized	<i>GitHub</i>
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real-time performance.

- Awarded Best Poster for effectively presenting complex research findings and visual data representation.

ii. Mobile Analytics Data Warehouse & Market Analysis

[GitHub](#) 

- Designed a normalized Star Schema architecture to transform raw smartphone data into structured Dimension and Fact tables, significantly improving query efficiency.
- Utilized SQL Window Functions (ROW_NUMBER, RANK) and CTEs to calculate market share, price-to-performance ratios, and multi-feature rankings.
- Conducted comparative analysis on 980+ records to identify hardware correlations and pricing strategies across different operating systems.

iii. Library Management System

[GitHub](#) 

- Built a web-based system to manage book catalogs and member records.
- QA Aspect: Performed functional testing on features like "issue/return tracking" and search functionality to ensure zero logic errors.
- Database Testing: Validated MySQL database integrity to ensure accurate storage and retrieval of member records.

iv. Analysis and Preprocessing of Network Traffic for Cybersecurity

[GitHub](#) 

- Processed raw packet-level data to identify anomalies and potential security threats using statistical analysis in R.
- Performed rigorous data cleaning and feature extraction, handling missing values and filtering noise to prepare datasets for intrusion detection models.
- Conducted Exploratory Data Analysis (EDA) using ggplot2 to visualize traffic patterns and detect malicious behavioral trends.

Skills

Technical Skills:

- Data & Analysis: SQL (Window Functions, CTEs), Power BI, R, Python, MS Excel.
- Programming, Web & Testing: C++, Java, HTML, CSS, PHP, Selenium IDE, UAT, SDLC.

Certifications

Cisco Networking Academy program

JAN 2022 – PRESENT

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

 [Link to All Certificates](#) 