



# Abdullah Al Marjuc Talha

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👤 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

<b>AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH</b> <i>BSc in Computer Science and Engineering (Major: Information Systems)</i>	<i>JAN 2022 – PRESENT</i>
○ CGPA: 2.95 / 4.00 ○ Status: 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.	

<b>CANTONMENT PUBLIC SCHOOL AND COLLEGE MOMENSHABI</b> <i>Higher School Certificate (Science)</i>	<i>2018 – 2020</i>
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## Leadership & Experience

<b>Co-Founder</b> <i>Prime Corner - Online Clothing Business</i>	<i>Dhaka</i>	<i>JULY 2023 - PRESENT</i>
○ 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.		
<b>Executive – Strategic Member</b> <i>ESAB AIUB Unit Face</i>	<i>Dhaka</i>	<i>JUNE 2025 - PRESENT</i>
○ 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.		
<b>Crew Facilitator</b> <i>Space Innovation Camp</i>	<i>Dhaka</i>	<i>JULY 2025 - PRESENT</i>
○ Coordinated logistics and team activities for large-scale participant events.		

## Volunteering Experience

- The Second Space Exploration Olympiad as a Crew Facilitator on 01 August 2025.
- Research Assistant, ADPC-ICARE Innovation Fund Project, 2024.

## Academic Projects

<b>i. Real-Time Multimodal Confidence Detection System (Thesis Project)</b>	<a href="#">GitHub</a>
○ 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	

- 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

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### 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

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### Cisco Networking Academy program

JAN 2022 – PRESENT

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

 [Link to All Certificates](#) 