

# Abdullah Al Marjuc Talha

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in ABDULLAH AL MARJUC TALHA    🌐 Abdullah Al Marjuc Talha

## SUMMARY

Final-semester Computer Science student specializing in Data Analytics and Process Optimization. Proficient in **SQL, R, and Python for data warehousing, statistical analysis, and visualization**. Experienced in transforming raw datasets into actionable business insights, evidenced by a "Best Poster Award" in software research. Co-founder of an e-commerce business with hands-on experience in logistics and customer operations.

## 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."

## Skills

### Technical Skills:

- Data Science & Analytics: R, Python.
- Visualization & BI: Power BI, Data Visualization.
- Database: Microsoft SQL Server, MySQL, Star Schema Design.
- Programming & Web: C++, Java, HTML, CSS, PHP, Git.

## Projects

### 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.

### 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.

### Real-Time Multimodal Confidence Detection System(Thesis Project)

[GitHub](#) 

- Built a real-time system combining facial landmarks, hand gestures, and voice pitch to measure human confidence levels.
- 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.

## Experience

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### **Executive – Strategic Member**

*ESAB AIUB Unit Face*

*Dhaka*

*JUNE 2025 - PRESENT*

Lead strategic planning for club activities and manage web-based initiatives. Previously served as a volunteer for 1.5 years, organizing technical events and workshops.

### **Crew Facilitator**

*Space Innovation Camp*

*Dhaka*

*JULY 2025 - PRESENT*

Coordinate team activities and logistics for large-scale participant events.

### **Co-Founder**

*Prime Corner - Online Clothing Business*

*Dhaka*

*JULY 2023 - PRESENT*

Manage end-to-end business operations, utilizing data to track inventory, sales trends, and customer preferences. Coordinate logistics and resolve customer queries to make sure that you have a seamless delivery experience.

## **Volunteering Experience**

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

## Certifactions and Awards

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**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.

### **Cisco Networking Academy program**

*JAN 2022 – PRESENT*

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

[Link to All Certificates](#)