

ASIF MAHMUD

🏠 Nabiabad, Debidwar, Cumilla

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CAREER OBJECTIVE

To build a purposeful and fulfilling career through continuous learning, dedication, and integrity. I aim to apply my knowledge and analytical abilities to contribute meaningfully to organizational growth and society, while pursuing excellence and personal development in every responsibility I undertake.

EDUCATION

Bachelor of Science in Computer Science and Engineering

CGPA: 3.79

University of Chittagong, Chittagong

Jan. 2020 – Aug. 2025

Higher Secondary Certificate-HSC Examination

GPA: 5.00

Dr. Mahbubur Rahman Molla College, Demra, Dhaka

Jul. 2017 – Jun. 2019

Secondary Secondary Certificate-SSC Examination

GPA: 5.00

Chandina Govt. Pilot Model High School, Chandina, Cumilla

Jan. 2015 – May 2017

UNDERGRADUATE THESIS

- **A Comparative Analysis of Machine Learning and Transformer Models for Hate Speech Detection in Mpx-Related Instagram Posts.** — Comparative study evaluating model performance on multilingual harmful content.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, JavaScript

Web Development: HTML, CSS, React.js, Node.js, Express.js, REST API, GraphQL

Database Management: MySQL, Firebase, MongoDB

Machine Learning & NLP: Scikit-learn, TensorFlow, Transformers, NLTK, Hugging Face

Version Control & Collaboration: Git, GitHub, GitLab

Tools & Technologies: VS Code, Jupyter Notebook, Android Studio, Postman

Operating Systems: Windows, Linux (Ubuntu)

PROJECTS

- **Chittagong University Meeting Management System** 🔄 *Team Project, 2024*
 - **React.js · Express.js · MySQL · TypeScript** – A full-stack web platform for departmental meeting scheduling, agenda management, and automatic PDF documentation of meeting minutes with secure data handling and modular structure.
- **Equijuris Associates (Law Firm Management System)** 🔄 *Team Project, 2023*
 - **React.js · Node.js · Express.js · MongoDB** – Developed an online law firm management system enabling clients to book appointments and manage case data, integrating authentication, role-based access, and responsive UI.
- **BasaKhuji – A House Rental Mobile App** 🔄 *Individual Project, 2024*
 - **Java · XML · Firebase** – Android app for connecting tenants and landlords, featuring property listings, user authentication, Google Maps integration, favorite functionality, and NLP-based comment analysis.

- **ESP32 Smart Door Lock System** *Individual Project, 2025*
 - **ESP32 · Blynk IoT · Servo Motor · Sensors** – Designed and implemented an IoT-based smart door lock system controllable via the Blynk mobile app, integrating real-time device communication and secure access control.
- **Arduino-Based Fire Alarm System** *Individual Project, 2022*
 - **Arduino UNO · Flame Sensor · Buzzer** – Built a real-time fire detection and alert system using sensor inputs and microcontroller programming, focusing on safety automation and embedded system design.
- **Intelligent Home Automation System Using ESP32, Blynk, and ANN** *Team Project, 2024*
 - **ESP32 · Blynk · TensorFlow Lite** – Built an IoT-based smart home system with on-device ANN for predictive appliance control.
 - Predicted rain likelihood using temperature and humidity data to enable **context-aware, energy-efficient automation**.
 - Implemented synchronized manual and app control with real-time sensor data and predictions displayed on a dot matrix unit.
- **Restaurant Expert System** *Individual Project, 2024*
 - **Prolog · Rule-Based AI** – Built an expert system for personalized dish recommendations and menu management using a structured knowledge base and inference engine.
 - Implemented rules for dietary preferences, allergies, and complementary dish suggestions to automate real-time decision-making.
 - Designed a dynamic menu management system to enhance customer interaction efficiency and overall dining experience.

TRAINING & CERTIFICATIONS

- **Full Stack Web Development Training** *Nov 2024 – Apr 2025*
 Department of CSE, University of Chittagong (80 hours)
 Conducted under the *EDGE Project*, Bangladesh Computer Council, ICT Division.

EXTRACURRICULARS

- **Joint Secretary**, Debidwar Upazilla Student Association of Chittagong University *2023-2024*
- **Participant – Project Showcasing, Chittagong Science Carnival 4.0** *2023*
 Chittagong University Scientific Society (CUSS) – Certificate of Appreciation for active participation in project showcasing.
- **Technical Team Member – IT Fiesta 2024 Inter-University Programming Contest** *2024*
 Organized by Chittagong University Scientific Society (CUSS), contributed as part of the technical team.