Mehreen Hossain Chowdhury

Email : mehreenhossain@iut-dhaka.edu
Mobile : +8801633163805
LinkedIn: mehreen-hossain-chowdhury
github.com/mehreen019

EDUCATION

Islamic University Of Technology   Gazipur, Bangladesh
Bachelor of Engineering in Computer Science and Technology; CGPA: 3.96/4.0   *Aug. 2022 – June. 2026*

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Python, Java, JavaScript, TypeScript, Dart, PL/SQL

- **Frameworks & Libraries**: React, Node.js, Express.js, MongoDB, Scikit-learn, Tensorflow, NumPy, Pandas, OpenCV, NLTK, LangChain

- **Tools**: Git, Linux, ROS, TinkerCAD, Arduino

PROJECTS

EchoNav: *Jan. 2025*

- Designed a mobile app for visually impaired users with voice control and AI-powered object recognition.

- Deployed for testing, receiving positive feedback for usability.

Technologies: Flutter, Dart, Python, LangChain

CrisisCompass: *July. 2024*

- Developed a disaster management app with real-time alerts, AI-driven disaster prediction, and resource request features.

Technologies: Node.js, React, Express.js, MongoDB, Python, Scikit-Learn NumPy, Pandas

HealthMate: *May. 2024*

- Created a chatbot for health diagnosis using natural language processing and user medical history.

- Achieved 96% accuracy in testing simulated medical queries.

Technologies: React, Node.js, MongoDB, Python, Scikit-Learn, Tensorflow, NLTK, NumPy, Pandas

CERTIFICATIONS

Completed the **Machine Learning Specialization** by AndrewNg on Coursera.
Course-certificate

ACHIEVEMENTS

- Winner, **Champion Girl's Team** at ICPC Dhaka Regional Contest 2024 (1st place among 50+ female teams).
- **Star Performer** in IUT Coderush 1.0 Programming Segment (1st Year).
- 1st Place in IUT Accelerate 2023 Project Showcasing Segment.

Extra Curricular Activities

Project Altair   Gazipur, Bangladesh
Senior Software Team Member   *Aug. 2023 - Present*

- Developed optimized algorithms for Mars rover path planning and operation using Python and OpenCV.

- Designed and maintained the official website to promote club achievements.

- Gained proficiency in ROS, Linux, and robotic simulation environments.

IEEE Robotics and Automation Society   Gazipur, Bangladesh
Senior Software and Autonomous Team Member   *Aug. 2023 - Present*

- Collaborated on multi-disciplinary robotics projects involving hardware and software integration.

- Built prototypes using Arduino and TinkerCAD for robotics competitions.