

Sydul Hasan Tawsif

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EDUCATION

- **Chittagong University of Engineering & Technology** 2020-2025
BSc in Computer Science & Engineering CGPA: 3.17 (scale of 4.0)

PROJECTS

- **A Machine learning model to recognize and count barbell exercises** November 2023 - January 2024
 - Tools & technologies used: Pandas, Matplotlib, NumPy, scikit-learn
 - Classified barbell exercises using accelerometer and gyroscope data from wearable sensors
 - Achieved 99.79% accuracy in exercise classification using random forest
 - Achieved 98.98% accuracy in counting exercise repetitions using a peak detection algorithm
- **AutoX - An Automobile Workshop Maintenance system** July 2023 - September 2023
 - Tools & technologies used: MongoDB, Express Js, React, Node JS, Java Script, HTML, CSS
 - Find specific car parts with ease using user-friendly search functions
 - Uncover nearby workshops effortlessly
 - Make informed decisions by comparing prices across various shops for similar items, ensuring the best value
- **Legal Aid and Legal Documents Management Website** November 2023 - January 2024
 - Tools & technologies used: MongoDB, Express Js, React, Node Js, Java Script, HTML, Tailwind CSS, Bootstrap
 - Incorporates a document generator that will produce legal drafting documents.
 - Locates advocates based on user needs and location
 - Offers free and paid tiers for legal information and assistance

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, JavaScript, LaTeX

Developer Tools: Git, Linux, ns-3, ndnSIM

Frameworks: React, Node.js, Express.js

Databases: MongoDB, MySQL

Soft Skills: Problem Solving, Teamwork, Communication

Coursework: Data Structures, Algorithms

Areas of Interest: Competitive Programming, Computer Networking

ACHIEVEMENTS

- **25'th among 82 teams in SEC Inter-University Junior Programming Contest, 2022.** Team Name: CUET_Triobyte.
- **16'th among 41 teams in EDU Inter-University Programming Contest, 2022.** Team Name: CUET_DoubleZero.
- **555'th among 21000 contestants in Codeforces Round 827 (Div. 4).**