

Gour Gupal Talukder Shawon

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Education

B.Sc in Software Engineering **Shahjalal University of Science and Technology, Sylhet** March 2022 – Present

- **CGPA:** 3.37/4.0
- **Coursework:** DSA, OOP, Computer Networking, Operating System, AI, ML, Deep Learning etc.

Algorithmic Problem Solving

- Solved 500+ [LeetCode](#) problems, max streak **345** days, rating: **1568**(max) and earned 18 badges.
- Completed 250–300 algorithmic problems on Codeforces, UVA, and VJudge platforms.

Hackathons and Technical Events

- **BDApps National Hackathon 2022:** Collaborated in a team of three to develop an IoT prototype for live tracking university transports, enabling students to check nearby bus availability through an app.
- **International Hackathon "Bridging Engineering & Computer Science" (Ongoing):** Working in a team of two to create a browser-based, high-fidelity simulation of projectile motion with optional air resistance.
- **Orbitax SUST SWE Technovent 2023 Powered By DSI:** Contributed to organizing a department-hosted national tech event, showcasing teamwork and organizational skills.

Projects

Personality Detection Using Machine Learning — [Live](#)

[github/repository](#)

- Engineered a machine learning system to predict personality traits from behavioral data, attaining 91% accuracy via Random Forest algorithm; refined feature engineering and data preprocessing pipelines for optimal performance.
- Executed the refinement of predictive models through comprehensive feature engineering, boosting the model's F1 score by 20% and ensuring reliable real-time predictions for end-users.
- Tools Used: Python, scikit-learn, Flask, Next.js, Pandas, NumPy, joblib

Local Household Service Provider — [Live](#)

[github/repository](#)

- Conceptualized and executed fetching solution optimizing data retrieval speeds by 60%, leading to a 20% improvement in overall application responsiveness and user satisfaction.
- Integrated Google Gemini-powered AI chatbot, improving service query response rate by 60%. Authored critical system docs like SRS and project proposal.
- Tools Used: Next.js, Express.js, MongoDB, Nodemailer, Cloudinary.

IICT Library Management

[github/repository](#)

- Built a scalable digital library management system with searchable catalog, lending history, and admin-student workflows; digitized 100% of physical catalog.
- Designed responsive UI in React/TypeScript and implemented secure login with role-based access control.
- Tools Used: React, Node.js, Express.js, TypeScript, CSS

Green Mind App

[github/repository](#)

- Developed a Flutter mobile app for SUST's psychiatry department, streamlining appointment booking and reducing manual workload by 80%.
- Integrated Firebase Auth for secure access control across admin, doctor, and patient roles.
- Tools Used: Flutter, Dart, Firebase

Certifications and Online Courses

- **Machine Learning Crash Course – Google:** Completed comprehensive lessons on core ML concepts, including TensorFlow exercises.
- **Introduction to Generative AI with AWS – Udacity:** Completed training using AWS SageMaker to fine-tune LLMs with focus on prompt engineering.

Technical Skills

Languages: C++, Python, JavaScript, TypeScript
Frameworks: Next.js, React, Express.js, Flutter

Tools: Git and Github
Databases: MySQL, MongoDB, Firebase