

Abrar Mahmud Hasan

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SUMMARY

Computer Science student with a strong problem-solving mindset and hands-on experience in developing AI powered full-stack applications. Contributed to production-grade ERP and web systems, and now transitioning toward AI engineering with a solid foundation in Python, machine learning, and real-world software development.

EDUCATION

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| <ul style="list-style-type: none">Islamic University of Technology | CGPA 3.80/4.00 |
| Bachelor of Science in Computer Science & Engineering | |
| Expected Graduation: August 2027 | |
| <ul style="list-style-type: none">Notre Dame College, Dhaka | GPA 5.00/5.00 |
| Higher Secondary Certificate | |

EXPERIENCE

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| Shahrish Engineering & Construction Limited | December 2024 - September 2025 |
| Junior Software Engineer | |
| <ul style="list-style-type: none">Designed and delivered production-grade web and ERP solutions using React, Tailwind CSS, and Django, including the company's official website and internal supply-chain modules that improved workflows and reduced manual data handling by 90%. | |

PROJECTS

- CurioKids (React Native + Node + Firebase + AI)**: Built an AI-driven learning app for kids with personalized puzzles, gamification, parental controls, and real-time progress tracking using Firebase Authentication and Firestore.
- HealthX (React + Node + Firebase + Gemini)**: Hackathon winning AI powered application bridging the gap in medical support for Bangladesh's Hill Tracts and Rural Regions.
- Ecommerce Backend (Spring Boot + SQL)**: Implemented a secure ecommerce backend with JWT-based authentication, product and order management, RESTful APIs, and a layered architecture with input validation.
- Predictive Modeling for Agriculture (Python & Scikit-learn)**: Developed a supervised ML model with feature selection to identify the most predictive soil attribute (N, P, K, or pH) for crop-type classification.

PROGRAMMING SKILLS

- Languages:** Java, Python, C#, C++, JavaScript, SQL, HTML/CSS
- Frameworks:** React, React-Native, NextJS, Spring Boot, Django, MongoDB, RestAPI, Git, Docker, Firebase
- Data Science & ML:** *Supervised Learning*: Linear/Logistic Regression, Decision Trees, k-NN, SVM, *Unsupervised Learning*: k-Means Clustering, Hierarchical Clustering, *Tools & Libraries*: Scikit-learn, Pandas, NumPy, Matplotlib

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

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| <ul style="list-style-type: none">Joint Secretary, IUT Computer Society | December 2025 - Present |
| <ul style="list-style-type: none">Organized and supported technical workshops, coding events, and seminars for university students.Collaborated with cross-functional teams to manage event logistics and member engagement. | |
| <ul style="list-style-type: none">General Secretary, Notre Dame Science Club | May 2022 - May 2023 |
| <ul style="list-style-type: none">Led administrative operations, meeting coordination, and inter-school event planning.Managed documentation, communications, and execution of science fairs and competitions. | |

AWARDS & ACHIEVEMENTS

- 1st Runner-up**, Future Builders 2025 AI Driven Cognitive Innovation Hackathon
- Champion**, Robi 10 Minute School ICT Olympiad
- Participant**, ACM ICPC Dhaka Regionals