

# Ashfak Azad Nafi

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## EDUCATION & CERTIFICATION

<b>Bachelor of Science in Computer Science and Engineering</b> <i>Islamic University of Technology (IUT)</i>	<b>2022 – Present</b>
<b>Master HTML and CSS by Building Real World Projects</b> <i>Udemy</i>	<b>2024</b>

## SKILLS

### Programming Languages:

- Python, JavaScript, C++, Java

### Databases:

- PostgreSQL, MySQL, MongoDB

### Frontend:

- React, React Native, HTML, CSS

### AI/ML:

- TensorFlow, NumPy, Pandas, CNN

### Backend:

- Node.js, Express.js, Spring Boot, REST APIs

### Tools & Technologies:

- Git, Github, Postman, LaTeX

## PROJECTS

### ShopEase – Full-Stack E-commerce Website [Github] Nov 2024 – Apr 2025

ShopEase is a full-featured e-commerce platform built with the MERN stack, enabling users to browse, search, and purchase products securely. It includes user authentication with JWT, product filtering, dynamic cart management, order tracking, and an integrated payment system.

### IUT CritiqueHub – Full-Stack Blog Website [Github] Oct 2024 – Mar 2025

IUT CritiqueHub is a full-stack blogging platform where users can create, edit, and manage blogs, as well as comment and review others' posts. Built using React.js, Node.js, Express.js, and MongoDB, the app supports trending blogs and provides a clean, responsive interface for content publishing and interaction.

### Handwritten Character Recognition [Github] Jun 2025 – Jul 2025

Built a CNN-based deep learning model to recognize handwritten digits and characters using MNIST and EMNIST datasets. Achieved 99% accuracy on MNIST and evaluated performance on real-world handwritten inputs. Features include modular code, robust preprocessing, data augmentation, and visualization of predictions with precision, recall, and F1-score metrics.

### CardioNet-Validator [Github] Jun 2025 – Jul 2025

A robust, end-to-end machine learning pipeline for predicting heart disease from clinical parameters, built with Python and XGBoost. It performs data collection, preprocessing, model training, rigorous cross-dataset validation, and final model integration for inference.

## EXTRACURRICULAR ACTIVITIES

### General Member

*IUT Auto Mobile Society(IUT AUS)*

Working on IOT based embedded system technologies

**June 2023 – Present**

## ACHIEVEMENTS

- Solved 100+ problems in Codeforces (Rating: 809)[Codeforces]
- Pre-finalist at International Astronomy and Astrophysics Competition

**Jul 2025**