Eiamin Hassan Shanto

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Education

Daffodil International University, Dhaka, Bangladesh
- B.Sc. in Computer Science and Engineering (2022– 2025)
- CGPA: **3.9** out of 4.00

Technical Skills

Programming Languages: C, C++, Python
Development Frameworks: Django, Laravel, Flutter
Database: MySQL
ML Frameworks: Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, PyTorch
Others: Git, GitHub, n8n

Programming Experience

Unlock the Algorithm Programming Contest Fall-23 [Preliminary - A Slot]: Ranked **1st**   🔗
Unlock the Algorithm Programming Contest Fall-23 [Final]: Ranked **12th**   🔗
Codeforces: Newbie (Max 1067), **600+** problems solved   🔗
2023 ICPC Asia Dhaka Regional Site Online Preliminary: Ranked **156th** (DIU_PigeonHole)   🔗
UAP Inter University Collaborative Programming Contest 1.0 (Senior): Ranked **17th** (DIU_NewComer)   🔗
National Datathon | CUET CSE Fest 2025 (Team NeuronX): Ranked **4th**   🔗
Solved **1200+** problems across different online judges.

Research Experience

Semi-Supervised Custom Attention UNet for Automated Knee Joint Segmentation in X-Ray Images
BSc Thesis | Journal submission in progress

- Developed a **robust knee joint X-ray segmentation model** for unclear and low-contrast boundaries
- Applied **semi-supervised learning with pseudo-labels** to reduce labeled data dependency
- Enhanced segmentation using **EfficientNet-B4 encoder** and **attention-based decoder**
- Designed a **clinically reliable framework** to support **knee osteoarthritis (KOA) assessment**

Advanced Hybrid CNN-ViT Ensemble with Attention and FPN for Retinal OCT Disease Classification
Accepted — International Conference on Intelligent Data Analysis and Applications (IDAA 2025)

- Proposed a hybrid deep learning framework combining **CNN and Vision Transformer (ViT)** architectures for retinal OCT image classification
- Integrated **attention mechanisms and Feature Pyramid Network (FPN)** to improve multi-scale feature representation
- Implemented and evaluated the model using **Python, PyTorch, OpenCV**

Smart Crop Monitoring: Deep Learning Architectures for Multi-Class Citrus Leaf Disease Recognition
Accepted — International Conference on Intelligent Data Analysis and Applications (IDAA 2025)

- Designed and benchmarked multiple **CNN-based and transfer learning architectures** for multi-class plant disease detection
- Performed dataset preprocessing, augmentation, and class imbalance handling for real-world agricultural images
- Demonstrated applicability of AI-driven solutions for **precision agriculture and smart farming**

Projects

BeingScholar Dynamic Website 🔗

Tools: HTML, CSS, JavaScript, Laravel(Framework)

- A course management system for **DIU micro-credential centralization**
- Implemented **backend features** for course fee management
- Developed dynamic course details page
- Implemented enrollment with **payment authentication**

ResearchPro — Research & Scholarship Info App 🔗

Tools: Flutter

- Built **mobile app for research deadlines and scholarship listings**
- Integrated **Firebase authentication**
- Designed UI for browsing, searching, and tracking opportunities

Extra Curriculum Activities

- **Problem Setter** — Take-OFF Programming Contest Fall-23 [Preliminary - A Slot]
- **Lab Prefect, CSE** — Daffodil International University
    - Assisted lab sessions on C programming and problem solving (Jul 2023 – Dec 2024)
- **Technical Volunteer** — 2024 ICPC Asia Dhaka Regional Contest
- **Session Volunteer** — IDAA 2025