

# FAIZA MALIAT

+880-1316020409 | faizamaliat@iut-dhaka.edu | linkedin.com/in/faizamaliat | github.com/FaizaM07

## Education

<b>Islamic University of Technology (IUT)</b> Bachelor of Science - Software Engineering   CGPA-3.45 <b>Relevant Coursework:</b> Machine Learning, Artificial Intelligence, Web Development, Object-Oriented Programming, Software Engineering, DSA, Software Specifications and Requirements.	<b>Aug 2022 – Present</b> Dhaka, Bangladesh
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## Work Experience

<b>Web Development Intern   Sharkss Capital Inc.</b> • Building full-stack web application using MERN stack and designing API endpoints. • Collaborating remotely to develop and enhance system functionalities, mainly frontend.	<b>2025-Present   Remote</b>
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## Technical Projects

<b>CodERA – AI-Driven Programming Language Learning Platform [Live Demo]</b> • Developed a full-stack learning platform offering coding lectures, quizzes and user progress tracking. • Implemented responsive UI and integrated real-time interaction using WebSocket communication (Socket.io).	<b>JavaScript   MERN Stack   Socket.io</b>
<b>PlantCare – ML Tool [GitHub]</b> • Built a machine learning based web tool for plant disease detection using image classification. • Trained deep learning models on two datasets and developed the interface using Streamlit. • Represented visualization on user-friendly dashboards using Heatmaps (Grad-CAM).	<b>Python   Machine Learning   Streamlit</b>
<b>Soulace – Mental Health and Well-being Application [Live Demo]</b> • Hackathon-winning project offering mood and sleep tracking, AI chatbot and community engagement. • Developed a mental health support and journaling assistant using AI for conversational interaction. • Used MongoDB for storing user entries and emotional logs; responsive UI designed in Tailwind CSS.	<b>React.js   Node.js   MongoDB</b>
<b>HomeConnect – Rental Management System[GitHub]</b> • Developed a Windows desktop application for rental property listings and tenant data management. • Implemented rental tracking and search features using Windows Forms.	<b>C#   .NET Framework</b>

## Skills

<b>Languages:</b>	C, C++, Python, JavaScript, Java, HTML/CSS, SQL, MongoDB, C#
<b>Frameworks &amp; Tools:</b>	Mern Stack, Next JS, Git/GitHub, Postman, Figma, AutoCAD, Notion, Miro, Jira
<b>AI / Machine Learning:</b>	Numpy, Pandas, Scikit-learn, Deep Learning Models, TensorFlow, Model Training, XAI (Grad-CAM), CV, One-Cycle Policy
<b>Soft Skills:</b>	Mentoring, Collaborating, Research, Communication

## Research Publications & Certifications

- Publication:** Co-Author - “Optimizing Waste Classification Using Transfer Learning and One Cycle Policy with Grad-CAM-Based Explainability” – IEEE QPAIN Conference, 2025 [[Certificate](#)]
- Certification:** Machine Learning Specialization - Stanford University & DeepLearning.AI (Coursera), 2024.
- Training:** National Math Camp - Bangladesh Mathematical Olympiad; Elevating Girls in Competitive Programming - Bangladesh Open Source Network(BdOSN).

## Awards & Achievements

- Hackathon:** Winner - Dhaka Divisional Hackathon Technocrats-V.2 Runner-up (2024) [[Link](#)]
- Competition:** Inventious 4.1-Project Showcasing-Finalist (2025)
- UI/UX:** IUT ICT Fest UXsparkle - Participant (2024)
- International:** IYMC Pre-Finalist (2021)
- National:** BdMO Winner (2017), BdPhO Winner (2017)
- Olympiad:** Winner: BdMO, BdPhO, BdJSO, NHSPC, BdOI, Creative Talent Hunt(CTH)

## Leadership Experience

<b>Academic Team Member</b>   Bangladesh Mathematical Olympiad Committee	<b>Nov 2022 – Present</b>
<b>Secretary of Event Management</b>   IUT Photographic Society	<b>Oct 2022 – Present</b>
<b>Senior Mentor</b>   Dinajpur Math Club	<b>Jan 2021 – Present</b>