

MEHADI HASAN

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Personal Website

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Linkedin

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Github

RESEARCH INTEREST

My research interests include blockchain technology, machine learning, software development, robotics, and IOT, with a focus on interdisciplinary approaches to address complex real-world challenges.

EDUCATION

Bachelor of Science in Computer Science & Engineering
Shahjalal University of Science & Technology
CGPA: 3.74 out of 4.0

January 2020 - July 2025
Sylhet, Bangladesh

Higher Secondary Certificate (12th Grade)
BAF Shaheen College Shamshernagar
GPA: 4.83 out of 5.0

August 2016 - April 2018
Moulvibazar, Bangladesh

PUBLICATIONS

1. **Mehadi Hasan**, Ovi Talukder, Raisul Karim Saju and Md Lysuzzaman. KYC-Driven Cryptocurrency Wallet: A Solution To Regulatory Compliance. Accepted in 2024 27th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh. [\[Paper\]](#).
2. Ruhul Amin, **Mehadi Hasan**, Ovi Talukder, Shayla Shobnom Ankhi, Ashraful Islam, Md Forhad Rabbi. B-Dropshipper: Interoperable Federal Blockchain Approaches For Real Estate Dropshipping. Accepted in 2023 26th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh. [\[Paper\]](#).
3. Sudipto Kar, Ragib Mohammad, Meem Tasfia Zaman, Sayed Maher Reza, Ovi Talukder, **Mehadi Hasan**. Farmbot: an IoT-Based Wireless Agricultural Robot for Smart Cultivation. Accepted in 2023 26th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh. [\[Paper\]](#).

EXPERIENCE

Research Assistant
Sylhet Engineering College

Jan 2024 - Feb 2025
Sylhet, Bangladesh

Advisor: Md Lysuzzaman, Lecturer, Department of CSE, Sylhet Engineering College
Conducted research on blockchain technology and cryptography while preparing technical reports and presentations. Collaborated with interdisciplinary research teams on machine learning projects.

TECHNICAL SKILLS

Languages	: Python, C/C++, Swift, Java, Kotlin, Latex
Software Development	: iOS(Swift/SwiftUI, Xcode), Android(Java/Kotlin, Android Studio)
Machine Learning	: NumPy, Pandas, Matplotlib, OpenCV, NLTK, Scikit-Learn, Seaborn, Pytorch
Operating System	: Windows, Linux, MacOS

PROJECTS

- **IELTSpeak** [\[Code\]](#)

June 2024 - Present

IELTSpeak is an iOS app that helps users prepare for the IELTS Speaking test by simulating mock interviews with real-time voice interaction. The app records responses, evaluates them using AI, and provides detailed feedback on fluency, pronunciation, grammar, vocabulary, and topic relevance. Building it with SwiftUI/SwiftUI for its user interface, Supabase for its backend, and an LLM model for evaluating and providing feedback.

- UnChair** [\[App Store\]](#) [\[Code\]](#) April 2024 - June 2025
 UnChair, an iOS app, addresses modern sedentary lifestyles by promoting physical activity through reminders, challenges, and exercises to improve posture and overall health. Developed with Swift and SwiftUI, and Firebase for the backend.
- Petopia** [\[Code\]](#) January 2024 – March 2024
 This Android app improves pet care while encouraging a vibrant community of pet enthusiasts. Built with MVC and OOP principles, it uses native frameworks like Java, Kotlin, and XML for a smooth user experience. It integrates a MySQL database with REST APIs via Retrofit and PHP for efficient API development.
- ZOO-Simulator** [\[Code\]](#) August 2023 - December 2023
 ZOO Simulator is a Java console application project which focuses on OOD and Design Patterns. It progressively added complex features and diagrams while implementing patterns like Observer, Singleton, Strategy, Factory, Decorator, and Command. The project also included JUnit testing and data visualization, showcasing advanced Java programming and software design.

COURSES & CERTIFICATES

- Advanced Learning Algorithms [\[Link\]](#) October 2024
 DeepLearning.AI, Stanford University — Coursera
- Supervised Machine Learning: Regression and Classification [\[Link\]](#) September 2024
 DeepLearning.AI, Stanford University — Coursera
- Python for Data Science, AI & Development [\[Link\]](#) September 2024
 IBM — Coursera

OTHER ACTIVITIES

- Inter University Programming Contest - Sylhet Division** November 2024
 Metropolitan University
 Team Name: SEC_ZYX — Position: 14th [\[Results\]](#)
 Competed in a competitive programming contest alongside university teams across Sylhet division.
- Bitfest Hackathon** March 2022
 Leading University
 Sylhet, Bangladesh
 Participated in a competitive hackathon to develop innovative solutions for a School Management System, collaborating with team members to build prototype solutions within time constraints.
- Intra University Hackathon** August 2022
 Sylhet Engineering College
 Sylhet, Bangladesh
 Participated in an Intra University Hackathon, collaborating with team members to build a Library Management System within time constraints and a competitive environment.