

Md. Irtiza Hossain

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🌐 Personal Website in md-irtiza-hossain 📺 irtiza

Motivated Computer Science graduate with hands-on experience in software development, data analysis, and academia. Currently serving as an Adjunct Lecturer at BRAC University, with a proven track record in delivering impactful lectures, mentoring students, and contributing to curriculum design. Eager to continue inspiring future technologists through innovative teaching and real-world applications.

Professional Experience

Adjunct Lecturer

Brac University

Dhaka, Bangladesh

Nov 2024 – Present

- Delivered lectures and conducted labs on Data Structures, Artificial Intelligence, Computer Interfacing, Database Management Systems, System Analysis and Design, and Introduction to Robotics.
- Applied Outcome-Based Education (OBE) methods to enhance curriculum alignment and measure learning outcomes.
- Supported curriculum planning, assignment creation, and project-based learning.

Junior Software Engineer

Orbit Informatics

Dhaka, Bangladesh

Aug 2024 - Nov 2024

- Developed a Chrome extension using React for the frontend and Node.js for the backend, enabling seamless browser integration and dynamic user interactions.

Trainee Engineer .NET

PRAN-RFL Group (othoba.com)

Dhaka, Bangladesh

Jun 2024 - Aug 2024

- Automated the abandoned cart detection system to identify customers who left items in their cart, leading to targeted recovery efforts and a 1–2% increase in sales.
- Designed and developed a dedicated pharmacy landing page for the platform, enhancing user experience and boosting category-specific sales.

Undergraduate Teaching Assistant

BRAC University

Dhaka, Bangladesh

Oct 2022 - May 2024

- Assisted in Programming Language-II (Object-Oriented Programming) course (Feb 2023 – May 2024) and Differential Calculus and Coordinate Geometry (MAT 110) course (Oct 2022 - Dec 2022)







Research Works

- **Enhanced CNN Approaches for Multi-Image Embedding in Image Steganography** Oct 2024
Md. Irtiza Hossain, Samiul Kadir, Farhan Ishraq Fagun, Ishtiaq Samiul, Rafi Zaman Saukhin — [10.1109/ICICT64387.2024.10839645](https://doi.org/10.1109/ICICT64387.2024.10839645) — [Code](#)
- **Deep Learning-Based CCTV System for Automatic Smoking Detection in Fire Exit Zones** Jul 2025
Sami Sadat, *Md. Irtiza Hossain*, Junaaid Ahmed Sifat, Suhail Haque Rafi, Md. Waseq Alauddin Alvi, Md. Khalilur Rhaman — [arXiv:2508.11696](https://arxiv.org/abs/2508.11696) — [Code](#)
- **Enhanced Hybrid Technique for Efficient Digitization of Handwritten Marksheets** Jan 2025
Co-Supervised — [arXiv:2508.16295](https://arxiv.org/abs/2508.16295) — [Code](#)

Education

- **Brac University** [*Master of Science in Computer Science and Engineering*] Jun 2025 – Present
- **Brac University** [*Bachelor of Science in Computer Science and Engineering*] Dec 2019 – May 2024
 - CGPA: 3.90 out of 4.00
- **Dhaka College** [*Higher Secondary Certificate*] Dec 2017 – Jul 2019
 - GPA: 5.00 out of 5.00
- **Ideal School and College, Dhaka** [*Secondary School Certificate*] Dec 2019 – May 2024
 - GPA: 5.00 out of 5.00

Projects

- **Explainable AI for Brain Cancer Classification from MRI Scans** github.com/repo 
- **Image Classification Using CNN (TensorFlow)** github.com/repo 
- **Telecom Churn Prediction** github.com/repo 
- **COVID-19 Tracker (React)** [Live Link](#) 
- **Power X Gym (MERN Stack)** [Live Link](#) 
- **Gadget Store (PHP, MySQL)** github.com/repo 

Technologies

Languages: C, C#, Python, JavaScript, PHP

Technologies: .TensorFlow, Scikit-learn, React, NodeJS, Redux , MongoDB, Firebase, MySQL, .Net

Awards and Achievements

- **Vice Chancellor's List (5 times)** — Recognition for exceptional semester GPA performance published each semester.
- **Dean's List (2 times)** — Awarded for outstanding academic performance based on semester GPA.

References

Md. Khalilur Rhaman, PhD
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Dr. Muhammad Iqbal Hossain
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