

Md. Irtiza Hossain

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Passionate about advancing research in AI and its applications in security, I bring strong expertise in machine learning, image processing, computer vision, and system security. With a solid foundation in Python, TensorFlow, and full-stack development, I combine research experience with practical software engineering skills. I am currently engaged in an academic role and eager to contribute to innovative AI and security projects in a PhD program.

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.

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)

- **Enhanced Hybrid Technique for Efficient Digitization of Handwritten Marksheets** Jan 2025

Co-Supervised — PDF [🔗](#)

- Deep Learning-Based CCTV System for Automatic Smoking Detection in Fire Exit Zones - [*Ongoing Work*]

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*]
- GPA: 5.00 out of 5.00

*Dec 2019 – May
2024*

Projects

- **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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