




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

- o 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

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- **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

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

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

## Awards and Achievements

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- **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

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