

Md. Irtiza Hossain

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🌐 Personal Website in md-irtiza-hossain 🌐 irtiza

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

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| Adjunct Lecturer
<i>Brac University</i> | <i>Dhaka, Bangladesh</i>
<i>Nov 2024 – Present</i> |
| <ul style="list-style-type: none">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
<i>Orbit Informatics</i> | <i>Dhaka, Bangladesh</i>
<i>Aug 2024 - Nov 2024</i> |
| <ul style="list-style-type: none">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
<i>PRAN-RFL Group (othoba.com)</i> | <i>Dhaka, Bangladesh</i>
<i>Jun 2024 - Aug 2024</i> |
| <ul style="list-style-type: none">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
<i>BRAC University</i> | <i>Dhaka, Bangladesh</i>
<i>Oct 2022 - May 2024</i> |
| <ul style="list-style-type: none">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

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| <ul style="list-style-type: none">Enhanced CNN Approaches for Multi-Image Embedding in Image Steganography
<i>Md. Irtiza Hossain</i>, Samiul Kadir, Farhan Ishraq Fagun, Ishtiaq Samiul, Rafi Zaman Saukhin — 10.1109/ICICT64387.2024.10839645 🔗 | Oct 2024 |
| <ul style="list-style-type: none">Deep Learning-Based CCTV System for Automatic Smoking Detection in Fire Exit Zones
Sami Sadat, <i>Md. Irtiza Hossain</i>, Junaid Ahmed Sifat, Suhail Haque Rafi, Md. Waseq Alauddin Alvi, Md. Khalilur Rhaman — arXiv:2508.11696 🔗 | Jul 2025 |
| <ul style="list-style-type: none">Enhanced Hybrid Technique for Efficient Digitization of Handwritten Marksheets
<i>Co-Supervised</i> — arXiv:2508.16295 🔗 | Jan 2025 |

Education

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|---|---|
| <ul style="list-style-type: none">Brac University [<i>Master of Science in Computer Science and Engineering</i>]Brac University [<i>Bachelor of Science in Computer Science and Engineering</i>] | <i>Jun 2025 – Present</i>
<i>Dec 2019 – May 2024</i> |
| – 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

- **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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