

# A. F. M. MINHAZUR RAHMAN

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## ABOUT

I am a Computer Science and Engineering (CSE) graduate from Rajshahi University of Engineering & Technology (RUET), Bangladesh, where I earned a Bachelor of Science degree with first-class honors, ranking first in my class. Currently, I serve as an Assistant Professor at the same institution. My research focuses on deep learning, particularly in computer vision tasks, including segmentation and classification. I am currently pursuing a Master of Science degree in CSE at RUET, where my thesis involves deep learning-based image segmentation for medical image analysis. I am passionate about contributing to advancements in computer vision, a field that I believe will significantly shape the future.

## RESEARCH INTERESTS

Computer Vision, Deep Learning, Artificial Intelligence, Medical Image Analysis

## EDUCATION

**Master of Science** | *Computer Science & Engineering (CSE)* On-going  
Rajshahi University of Engineering & Technology (RUET) Rajshahi, Bangladesh  
**CGPA: 4.00/4.00**

- **Relevant coursework:** Machine Learning, Advanced Digital Image Processing, Advanced Artificial Intelligence, Data Mining
- **Thesis title:** An Effective Deep Learning Approach for Analysis of Abnormalities in MRI Images
- **Thesis supervisor:** Dr. Md. Ali Hossain, Professor, CSE, RUET

**Bachelor of Science** | *Computer Science & Engineering (CSE)* 2021  
Rajshahi University of Engineering & Technology (RUET) Rajshahi, Bangladesh  
**CGPA: 3.89/4.00, Department Position: 1st**

- **Relevant coursework:** Digital Image Processing, Digital Signal Processing, Neural Networks & Fuzzy Logic, Artificial Intelligence, Technical Writing & Presentation, Vector Analysis & Linear Algebra, Object Oriented Programming, Applied Statistics, Data Structure, Computer Algorithms
- **Thesis title:** Hyperspectral Image Classification Using Factor Analysis and Convolutional Neural Networks
- **Thesis supervisor:** Dr. Boshir Ahmed, Professor, CSE, RUET

## WORK EXPERIENCE

**Rajshahi University of Engineering & Technology** Rajshahi, Bangladesh  
*Assistant Professor, Department of Computer Science & Engineering* September 2024 – Present  
*Lecturer, Department of Computer Science & Engineering* December 2021 – September 2024

- Supervised 10 undergraduate students in their theses on deep learning, computer vision, and image analysis, providing guidance on research methodologies and project execution
- **Courses taught:** Algorithm Analysis & Design, Applied Statistics, Technical Writing & Presentation, Operating Systems, Parallel & Distributed Systems

**North Bengal International University** Rajshahi, Bangladesh  
*Lecturer* March 2021 – December 2021

- Supervised undergraduate students in their software development projects
- **Courses taught:** Object Oriented Programming with Java, Computer Architecture & Organization

## SELECTED PUBLICATIONS

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### Published Book Chapters

- **A. F. M. Minhazur Rahman** and Boshir Ahmed. “[Hyperspectral Image Classification Using Factor Analysis and Convolutional Neural Networks](#).” In Mohammad Shamsul Arefin, M. Shamim Kaiser, Anirban Bandyopadhyay, Md. Atiqur Rahman Ahad, and Kanad Ray, editors, *Proceedings of the International Conference on Big Data, IoT, and Machine Learning*, pages 129–139, Singapore, 2022. Springer Singapore.

### Accepted Book Chapters

- **A. F. M. Minhazur Rahman** and Md. Ali Hossain. “Ensemble-Based Transfer Learning Approach for Brain Tumor Segmentation from MRI Images.” *Accepted and presented at the International Conference on Big Data, IoT, and Machine Learning: BIM 2023. Currently under editing for publication in a Taylor & Francis book.*

### Published Conference Papers

- **A. F. M. Minhazur Rahman** and Md. Ali Hossain. “[Attention-refined U-Net with Skip Connections for Effective Brain Tumor Segmentation from MRI images](#).” In *2023 26th International Conference on Computer and Information Technology (ICCIT)*, pages 1–6, 2023.
- Kowshik Deb Nath, **A. F. M. Minhazur Rahman**, and Md. Ali Hossain. “[An Attention-based Deep Learning Approach to Knee Injury Classification from MRI Images](#).” In *2023 26th International Conference on Computer and Information Technology (ICCIT)*, pages 1–6, 2023.

### Accepted Conference Papers

- Noman Amin, Anwar Hossain Efat, **A. F. M. Minhazur Rahman** and S. M. Mahedy Hasan. “Enhanced Skin Lesion Detection Using Concatenated DenseNet and Multi-Attention Mechanisms.” *Accepted and presented at the 4th International Conference on Innovations in Science, Engineering and Technology (ICISSET)*, 2024. **(Best Paper Award Winner)**

## RESEARCH PROJECTS

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### Brain Tumor Segmentation Using Effective Deep Learning Approach

2022-23

*Project Director*

- A research project funded by the University Grants Commission (UGC), Bangladesh, and RUET.
- Research grant amount: 149,760 BDT
- Proposed a novel, efficient deep learning based model for semantic segmentation of brain tumors in MRI images

## SOFTWARE DEVELOPMENT PROJECTS

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### Attendance Manager | Java

An Android application for taking class attendance, keeping track of students and generating attendance reports  
Available on Github: [Link](#)

### Med Organizer | Java

An Android application for keeping track of medication, setting reminders, keeping doctor appointment notes, etc  
Available on Github: [Link](#)

### C-Like Compiler | C, Flex, Bison

Compiler for a programming language similar to C that generates MIPS assembly code  
Available on Github: [Link](#)

## ACHIEVEMENTS

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### **Student of the Year - 4th Year**

Awarded for outstanding result in 4th year with average 3.97 GPA and academic excellence

### **Student of the Year - 3rd Year**

Awarded for outstanding result in 3rd year with average 3.93 GPA and academic excellence

### **Student of the Year - 1st Year**

Awarded for outstanding result in 1st year with average 3.94 GPA and academic excellence

### **Board Scholarship, Higher Secondary Certificate (HSC)**

Recipient of the Rajshahi Board Scholarship for general grade performance

## SKILLS

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- **Deep Learning Libraries:** TensorFlow, Keras, PyTorch
- **Data Analysis Tools:** NumPy, Pandas, Matplotlib, Seaborn
- **Programming Languages:** Python (advanced), C++ (intermediate), Java (advanced)
- **Software Development:** Android, PHP-Laravel, MySQL, Docker, Git
- **Languages:** English (Professional), Bangla (Native),

## REFERENCES

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- Dr. Md. Ali Hossain  
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