

# A. F. M. MINHAZUR RAHMAN

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## PERSONAL STATEMENT

I am a Computer Science and Engineering (CSE) graduate from Rajshahi University of Engineering & Technology (RUET), Bangladesh, where I earned my Bachelor of Science degree with first-class honors (first position). Currently, I serve as an Assistant Professor at the same institution. My research focuses on deep learning, particularly in computer vision tasks such as segmentation and classification. 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

<b>Bachelor of Science</b>   <i>Computer Science and Engineering (CSE)</i> Rajshahi University of Engineering & Technology (RUET) <b>CGPA : 3.89/4.00, Department Position: 1st</b>	2021 Rajshahi, Bangladesh
<b>Higher Secondary School Certificate (HSC)</b>   <i>Science</i> Rajshahi College <b>GPA: 5.00/5.00</b>	2015 Rajshahi, Bangladesh
<b>Secondary School Certificate (SSC)</b>   <i>Science</i> Shiroil Govt. High School <b>GPA: 5.00/5.00</b>	2013 Rajshahi, Bangladesh

## WORK EXPERIENCE

<b>Rajshahi University of Engineering &amp; Technology</b> <i>Assistant Professor, Department of Computer Science &amp; Engineering</i> <i>Lecturer, Department of Department of Computer Science &amp; Engineering</i>	Rajshahi, Bangladesh September 2024 – Present December 2021 – September 2024
<ul style="list-style-type: none"><li>Supervised 10 undergraduate students in their theses on deep learning, computer vision, and image analysis, providing guidance on research methodologies and project execution</li><li>Courses taught: Algorithm Analysis &amp; Design, Applied Statistics, Technical Writing &amp; Presentation, Operating Systems, Parallel &amp; Distributed Systems</li></ul>	
<b>North Bengal International University</b> <i>Lecturer</i>	Rajshahi, Bangladesh March 2021 – December 2021
<ul style="list-style-type: none"><li>Supervised undergraduate students in their software development projects</li><li>Courses taught: Object Oriented Programming with Java, Computer Architecture &amp; Organization</li></ul>	

## SELECTED PUBLICATIONS

### 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. "Deep Learning Approach to 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 for presentation at the 4th International Conference on Innovations in Science, Engineering and Technology (ICISSET), 2024.*

## 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 report.  
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 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)

Awardee of the Rajshahi board scholarship in general grade

## SKILLS

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- **Machine Learning Libraries:** TensorFlow, Keras, PyTorch
- **Programming Languages:** Python (advanced), C++ (intermediate), Java (advanced)
- **Version Control:** Git
- **Languages:** Bangla (Native), English (Professional)

## REFERENCES

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- Dr. Md. Ali Hossain  
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Department of Computer Science & Engineering  
Rajshahi University of Engineering & Technology  
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- Dr. Md. Al Mamun  
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