

# A. F. M. MINH AZUR RAHMAN

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## PERSONAL STATEMENT

I am a Computer Science and Engineering graduate from RUET, Bangladesh, where I graduated 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 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 (out of 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 (out of 5.00)</b>	2015 Rajshahi, Bangladesh
<b>Secondary School Certificate (SSC)</b>   <i>Science</i> Shiroil Govt. High School <b>GPA: 5.00 out of (5.00)</b>	2013 Rajshahi, Bangladesh

## WORK EXPERIENCE

<b>Assistant Professor</b> Department of CSE, Rajshahi University of Engineering & Technology	September 2023 – Present Rajshahi, Bangladesh
<b>Lecturer</b> Department of CSE, Rajshahi University of Engineering & Technology	December 2021 – September 2024 Rajshahi, Bangladesh
<b>Lecturer</b> Department of CSE, North Bengal International University	March 2021 – December 2021 Rajshahi, Bangladesh

## 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

A research project financed by University Grants Communication (UGC), Bangladesh and RUET

2022-23

## SOFTWARE DEVELOPMENT PROJECTS

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### Attendance Manager | Java

An Android app for taking class attendance, keeping track of student 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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Rajshahi University of Engineering & Technology  
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