

ABRAR TAHER

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EDUCATION

B.Sc. in Computer Science and Engineering

Chittagong University of Engineering & Technology

2018 – 2023

CGPA: 3.37/4.00

Last Four Semesters CGPA: 3.78/4.00

RESEARCH INTEREST

Multimodal Information Retrieval, AI in Healthcare, Medical Image Processing, Computer Vision, Explainable AI, Deep Learning, Machine Learning

RESEARCH EXPERIENCE

Thesis: A Deep Learning Approach for Multiclass Brain Tumor Classification and Segmentation

Supervisor: Ms. Sabiha Anan, Assistant Professor, Department of Computer Science and Engineering

- Developed a custom Convolutional Neural Network for multiclass brain tumor classification and a Residual Attention U-Net architecture for precise tumor segmentation.
- Conducted performance benchmarking against pretrained models while gaining hands-on experience with T1-weighted MR image preprocessing, feature extraction for small-scale tumors.

PUBLICATIONS

- S. Mallick, A. Debnath, **A. Taher** et al., "Early Detection of Diabetic Retinopathy using Novel Pre-Processing of Retinal Fundus Images," Preprint, 2026. DOI: [10.13140/RG.2.2.27410.62400](#)
- S. Saikat, **A. Taher** et al., "An Explainable Ensemble Framework for Multi-Level Diabetic Retinopathy Classification," Preprint, 2026. DOI: [10.13140/RG.2.2.27830.05443](#)
- A. Debnath, S. Mallick, **A. Taher** et al., "Gamma-CLAHE Enhanced InceptionV3 for Alzheimer's and Parkinson's Disease Detection with Explainable MRI Insights," Preprint, 2026. DOI: [10.13140/RG.2.2.32863.21920](#)
- **A. Taher** and S. Anan, "Multiclass Brain Tumor Classification and Segmentation from 2D MR Images: A Deep Learning Approach Using Custom CNN and Residual Attention U-Net," 26th International Conference on Computer and Information Technology (ICCIT), pp. 1-6, 2023. DOI: [10.1109/ICCIT60459.2023.10441606](#)
- **A. Taher**, W. I. Z. Ayon, and M. S. Hossain, "Histopathological Image-Based Classification of Lung and Colon Cancer Using Deep Learning Architectures with Preprocessing Enhancements," in Proceedings of the 27th International Conference on Computer and Information Technology (ICCIT), 2024. DOI: [10.1109/ICCIT64611.2024.11022478](#)
- **A. Taher** and W. I. Z. Ayon, "Exploring Sleep Disorders: A Comparative Analysis of Machine Learning Algorithms on Sleep Health and Lifestyle Data," 2024 IEEE International Conference on Power, Electrical, Electronics, and Industrial Applications (PEEIACON-24), 2024. DOI: [10.1109/PEEIACON63629.2024.10800593](#)

SKILLS

Programming Language	Python, C
Frameworks & Libraries	Keras, TensorFlow, PyTorch, Scikit-learn, Pandas, Seaborn, Matplotlib
Paradigms	Algorithm Design, Statistical Modeling
Tools	Lucidchart, Draw.io, Power BI, Colab, Jupyter, Kaggle, Git/GitHub, Overleaf
Web Development	HTML5, CSS3, Node.js

WORK EXPERIENCE

Junior Instructor

Computer Science
Asian University For Women

January 14, 2024 - Present
Chittagong, Bangladesh

- Conduct classes of total 18 hours/week, Student Advising, Administrative Tasks
- Course: Programming With Python, Computational Thinking & Programming, Computer Fundamentals

Lecturer

Department of CSE
Port City International University

July 04, 2023 – January 03, 2024
Chittagong, Bangladesh

- Conducted total 22.5 credits per semester, Administrative Tasks
- Course: Structured Programming, Computer Fundamentals & Programming Techniques, Discrete Mathematics

LANGUAGE PROFICIENCY TESTS

- **IELTS** – Overall Band Score: **7** (Listening: 8.0, Reading: 6.5, Writing: 6.5, Speaking: 6.5)

ACHIEVEMENTS

- Awarded the Bangladesh Technical Education Board Scholarship (BTEB) based on term results
- Received a merit based scholarship for the University Undergraduate Admission Test-2017
- Champion of the Regional Astronomy Olympiad (2014)
- Silver Medalist in the Regional Physics Olympiad (2013)

EXTRA-CURRICULAR ACTIVITIES

- **Community Service:** Volunteering at a village orphanage.
- **Athletics:** Participated in short-distance marathons promoting health and awareness.
- **Fitness:** Regular practice of fitness exercises and calisthenics training for personal well-being.
- **Fundraising:** Volunteered in fund raising and relief committee for the flood affected area in 2024