

Rabeya Tus Sadia

Education

- **PhD, Department of Computer Science** **University of Kentucky**
Lexington, KY, USA *August 2023- Present*
- **BSc in Computer Science & Engineering** **Rajshahi University of Engineering & Technology**
Rajshahi, Bangladesh, CGPA 3.55/4.0 *2021*
(1st class 10th)

Professional Experience

- **University of Kentucky** **August. 2023 – Present**
Graduate Research Assistant, Internal Medicine & Div- Biomedical *Lexington, KY, USA*
 - Research is primary focused on image quality assessment and generative models for medical imaging.
 - DDPM models for medical image enhancement.
 - Advisor: Prof. Jin Chen.
- **Green University of Bangladesh** **31th, Jan. 2022 – Present (on study leave)**
Lecturer, Department of Computer Science and Engineering *Dhaka, Bangladesh*
 - Taught courses in Data Communication, Database Systems, & Information System and design etc.
 - Supervised undergraduate project & thesis.
 - Advised undergraduate student.

Medium Blogs

- How to connect text and images:
Understanding Zero-shot Learning
Understanding Zero-shot learning with the CLIP model
- Understanding graph neural network with hands on example:
Part-1 & Part-2

Selected Publications

- [1] **Rabeya Tus Sadia**, M. A. Ahamed, and M. A. Hossain, "**Multiple weather scene detection utilizing the EfficientNet family**," in *6th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering(IC4ME2)*, pp. 140–145, 2021. (Published).
- [2] **Rabeya Tus Sadia**, M. A. M. Hasan, and A. Sayeed, "**Classification of skin lesion using transfer-learned CNN and feature concatenation**," in *6th International Conference on Engineering Research, Innovation and Education (ICERIE)*, pp. 89–94, 2021. (Published).
- [3] M. A. Ahamed and **Rabeya Tus Sadia**, "**Examining the behaviour of state-of-the-art convolutional neural networks for brain tumor detection with and without transfer learning**," *arXiv preprint arXiv:2206.01735*, 2022. (Preprint).

Achievements & Awards

- Sub-reviewer of BIBM (International Conference on Bioinformatics and Biomedicine)
- Reviewer of IJACTM21- International Journal of Advanced Computer Technology and Management.
- Champion of Huawei Seeds for the Future 2020

Projects

- **Online Book Shopping**(Project on CSE 3200: Software Development Project-II)
(Supervisor: Prof. Nazrul Islam Mondal, CSE department, RUET, February 2016)
 - **Description:** A useful web application that helps users to purchase books. This system is also integrated with other features e.g. searching books, recording order history, user authentication and E-mail verification via RESTful web API services.
 - **Technologies Used:** PHP, HTML5 CSS3, Javascript, jQuery, JSON, MySQL, Apache server.
- **Building Chatbot using Python**
 - **Description:** An AI-based software designed to interact with humans in their natural languages.
 - **Technologies Used:** PHP, HTML5 CSS3, jQuery, JSON, MySQL, Python

Programming Skills

- Proficient in Python, C++, C and Java
- Significant Experience with Python
- Machine Learning & Deep Learning tools & framework PyTorch, Keras & scikit-learn

Other Contacts

- **LinkedIn:** *rabeya-tus-sadia*
- **Google Scholar:** *Rabeya Tus Sadia*
- **ResearchGate:** *Rabeya.Tus.Sadia*