

P R A T I M S A H A

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About Me:

Dedicated and driven research enthusiast with a strong passion for the field of Artificial Intelligence (AI), seeking to leverage extensive knowledge and skills in a dynamic team environment. Adept at initiating and driving research projects from conception to development, with a deep commitment to knowledge acquisition and practical application. Eager to contribute to an organization's success by bridging the gap between advanced AI techniques and impactful social contributions.

Education:

- Daffodil International University, Dhaka, Bangladesh
Bachelor of Science, Computer Science and Engineering (CSE), November 2020
CGPA: 3.94/4.00
Undergrad Thesis
 - [A machine learning approach to detect diabetic retinopathy](#)
- University of Alabama at Birmingham, Birmingham, Alabama
PhD student, Computer Science, August 2021- Present
CGPA: 3.87

Employment History:

- Graduate Research Assistant
Lung Imaging Lab, University of Alabama at Birmingham
August 2021-Present
Responsibilities:
 - Developing new machine learning tools for CT-image and Spirometry Analysis
 - Finding new way of defining COPD, early diagnosis, and prognosis, enhancing predictive accuracy and patient outcomes
 - Analysis of airway structures, lung vasculature, and lung tissue to facilitate computer-aided diagnostic process

Membership:

- American Thoracic Society (ATS), 2022 - Present

Conference Publications:

- Saha, P., Bodduluri, S., Nakhmani, A., Amudala Puchakayala, P. R., Sthanam, V., Thimmegowda, N. M., ... & Bhatt, S. P. (2023). [Prediction of Emphysema Progression Using CT Radiomics](#). In C29. MORE THAN MEETS THE EYE: ADVANCED LUNG IMAGING (pp. A4721-A4721). American Thoracic Society.
- Saha, P., & Sultana, N. (2021). [Sentiment analysis from Bangla text review using feedback recurrent neural network model](#). In Communication and Intelligent Systems: Proceedings of ICCIS 2020 (pp. 423-434). Springer Singapore.
- Sultana, N., Palaniappan, S., & Saha, P. (2021, January). [An adaptive graph Cut algorithm for Spammer group detection from weighted One mode projection of bipartite graph](#). In 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST) (pp. 21-26). IEEE.
- Saha, P., Sultana, N., Khan, A. H., & Noman, S. (2022). [Abusive Bangla Comment Detection from Social Media Using Machine Learning Approach](#). In Artificial Intelligence and Sustainable Computing: Proceedings of ICSISCET 2021 (pp. 603-614). Singapore: Springer Nature Singapore.

Skills:

Programming Languages: Python, R, Matlab, C, Latex, HTML, CSS

Framework: Keras, Tensorflow, Pytorch, Flask

Tools & Software: Pycharm, VS Studio, Jupyter Notebook, Spyder, google Colab, Netbeans IDE, MySQL

Language Skills :

- English (IELTS (7.0); Speaking: 8.0, Reading: 7.5, Listening: 6.5, Writing: 6.5)
- Bangla (Speaking, Reading, Listening, Writing)
- Hindi (Speaking, Listening)

Paper reviews:

- ACM Multimedia, 2022, 2023
- IEEE Transactions on Dependable and Secure Computing
- International Journal of Multimedia Data Engineering and Management (IJMDEM)

Volunteer activities:

- Provided mentorship to a college student, focusing on research methodologies and project execution within the field of machine learning, 2022
- Served as a mentor to a high school student on understanding machine learning application in COPD, 2023

Achievements and Extracurricular activities:

- Regional champion (Gazipur) of Creative Talent Hunt, 2013
Category: Computer and Mathematics
- Regional champion (Gazipur) of Inter-school debate competition, 2009
- Reached the top 15 at Inter-departmental Math Olympiad, Daffodil International University, 2019