Abu Noman Md Sakib

PhD Researcher

abunomanmd.sakib@utsa.edu | Website | Linkedin | Google Scholar | GitHub

Education

Jan 2025 - Ongoing
University of Texas at San Antonio — San Antonio, TX
PhD in Computer Science
GPA: 4.00/4.00

Feb 2017 - Apr 2022
Khulna University of Engineering and Technology — Khulna, Bangladesh
B.Sc in Computer Science and Engineering
CGPA: 3.79/4.00
Thesis: Brain Hemorrhage Classification and Segmentation using Transfer Learning and Hybrid CNNs from CT Scan.

Research Interest

Explainable AI | Trustworthy ML | Human-AI Interaction | Computer Vision | Deep Learning | Large Language Models

Work Experience

Jan 2025 – Ongoing
University of Texas at San Antonio — San Antonio, TX
Graduate Teaching Assistant
- CS 5633 - Analysis of Algorithms (Fall 2025, Class Size: 50)
- CS 2713 - Computer Programming in C (Summer 2025, Class Size: 40)
- CS 2713 - Computer Programming in C (Spring 2025, Class Size: 130)
- Supervised both undergraduate and graduate students with course works and projects.

Oct 2024 – Dec 2024
Astha IT Limited — Dhaka, Bangladesh
Software Engineer II
- Contributed as a full-stack developer for the development of the largest OTT platform in Bangladesh.

May 2022 – Sep 2024
Reddot Digital Limited — Dhaka, Bangladesh
Software Engineer
- Contributed as a full-stack developer for the creation of large scale HRM, OTT, and LMS platforms.

Conferences Attended

- A.N.M. Sakib, "Multi-Scale Gaussian Smoothed Dynamic Class Activation Maps for Enhanced Visual Explanations," GSAW Symposium, 2025, San Antonio, TX, USA (Poster Presentation).
- A.N.M. Sakib, "Automatic Explainable Segmentation of Abdominal Aortic Aneurysm from Computed Tomography Angiography," BMES Annual Meeting, 2025, San Diego, CA, USA (Poster Presentation).

Services

Mentoring Experience
- **Five Undergraduate Students**
  Mentored UTSA undergrad students (freshman, sophomore, senior) in collaboration with a faculty mentor to strengthen their practical skills in Machine Learning and academic research. (Summer 2025–Ongoing)
- **Three Graduate Students**
  Mentored three recent graduates in their research with a focus on Computer Vision, NLP, and Human-AI Interaction. Assisted them in learning research methodologies and developing problem-solving skills. (Summer 2025–Ongoing)

Memberships
- Biomedical Engineering Society: 2025–Ongoing
- Association for Computing Machinery: 2025–Ongoing
- Bangladesh Student Association at UTSA: 2025–Ongoing

Publications

Conference

[C9] A.N.M. Sakib, S.B. Partha, M.A.I. Shojib, M.M. Hasan and M.B. Shuvo, "A Forefront System for Sugarcane Leaf Disease Classification Using Deep Learning," 4th International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), 2025.

[C8] M.M.O. Chisty, **A.N.M. Sakib**, M.S. Khan, and M.B. Shuvo, "Prompt Injection Detection Using Ensemble of BERT and LSTM with GloVe Embeddings," 13th International Conference on Electrical and Computer Engineering (ICECE), 2024.

[C7] P. Goswami, A.A. Safi, **A.N.M. Sakib**, and T. Datta, "Corn Leaf Disease Identification via Transfer Learning: A Comprehensive Web-Based Solution," 5th International Conference on on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET), 2023.

[C6] N. Anjum, **A.N.M. Sakib**, and S.M.M. Ahsan, "Classification of Brain Hemorrhage Using Deep Learning from CT Scan Images," International Conference on Information and Communication Technology for Development (ICICTD), 2023.

[C5] A.N.M. Sakib, N. Anjum, and S.M.M. Ahsan, "Segmentation of Hemorrhagic Areas in Human Brain from CT Scan Images," 4th International Conference on Sustainable Technologies for Industry (STI), 2022.

[C4] P. Goswami, A.B.M.A. Hossain, and **A.N.M. Sakib**, "An End-to-End Web-Based System for Rice Leaf Disease Classification using Deep Learning," 7th International Joint Conference on Advances in Computational Intelligence (IJCACI), 2022.

[C3] M.S. Junayed, N. Anjum, **A.N.M. Sakib**, and M.B. Islam, "A Deep CNN Model for Skin Cancer Detection and Classification," 29th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, 2021.

[C2] A.A. Jeny, **A.N.M. Sakib**, M.S. Junayed, I. Ahmed, and K.A. Lima, "SkNet: A Convolutional Neural Network Based Classification Approach for Skin Cancer Classes," 23rd International Conference on Computer and Information Technology (ICCIT), 2020.

[C1] M.S. Junayed, **A.N.M. Sakib**, N. Anjum, M.B. Islam, and A.A. Jeny, "EczemaNet: A Deep CNN-based Eczema Diseases Classification," IEEE 4th International Conference on Image Processing, Applications and Systems (IPAS), 2020.

Journal

[J1] M. Roby, **A.N.M. Sakib**, Z. Zhang, S.C. Muluk, M.K. Eskandari, and E.A. Finol, "Automatic Explainable Segmentation of Abdominal Aortic Aneurysm from Computed Tomography Angiography," IEEE Access, 2025.

Submitted

[S3] A.N.M Sakib, M.M.O. Chisty, and Z. Zhang, "Automated Workplace in Transition: Trust, Job Security, and Collaboration with GenAI," CHI Conference on Human Factors in Computing Systems (CHI), 2026.

[S2] A.N.M Sakib, Z. Wang, M. Roby, and Z. Zhang, "Explainable AI for Verification of Model Behavior Consistency," The 40th Annual AAAI Conference on Artificial Intelligence (AAAI), 2026.

[S1] A.N.M Sakib, M. Roby, Z. Zhang, and E. Finol, "Explainable AI in Medical Tasks: Methods, Applications, and Modalities of Explanation," Artificial Intelligence Review, 2026.

Technical Skills

- **Programming languages**: Python, C/C++, Javascript
- **DL/ML Libraries**: Pytorch, TensorFlow, Keras, Scikit-learn, OpenCV
- **Data Visualization**: Matplotlib, Seaborn
- **Technology**: Git, LaTeX

Honors and Awards

- Graduate Student Professional Development Award, 2025
- H.W. "Bill" Lende, Jr. Annual Graduate Research Award
- UTSA COS Alvarez Scholarship, 2025
- Star Developer Award for excellent performance (Q4, 2023)
- Government Scholarship in HSC Examination, 2016 (top 0.2% nationwide)