

Shuvashis Sarker

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Summary — Enthusiastic fresh graduate with a strong passion for advancing AI research, particularly in NLP and Computer Vision, dedicated to creating impactful, real-world solutions.

Skills

Languages	Fluent in English and Bangla	Libraries & Tools	TensorFlow, Keras, PyTorch, Scikit-learn, Pandas,
Programming	C, C++, Java, Python, PHP, HTML5, JavaScript, CSS		Numpy, Matplotlib
Databases	MySQL, PostgreSQL, Firebase, SQLite	Web Development	HTML, CSS, JavaScript, Apache
		Other	Research, teaching, and publishing

Research Publications

- Accepted for Publication**
- **Shuvashis Sarker**, Shamim Rahim Refat, Faika Fairuj Preotee, Tashreef Muhammad, *Advanced CNN and Explainable AI Based Architecture for Interpretable Brain MRI Analysis*, 3rd International Conference on Computing Advancements (ICCA 2024).
 - **Shuvashis Sarker**, *A Comprehensive Analysis of COVID-19 Detection Using Bangladeshi Data and Explainable AI*, International Conference on Innovations in Science, Engineering and Technology (ICISSET 2024).
 - Bidyarthi Paul, Faika Fairuj Preotee, **Shuvashis Sarker**, Tashreef Muhammad, *Improving Bangla Regional Dialect Detection Using BERT, LLMs, and XAI*, IEEE Conference on Computing Applications and Systems (COMPAS 2024).
 - Faika Fairuj Preotee, Md. Sabbir Hossain, **Shuvashis Sarker**, Farliha Binte Faisal, Nawrin Tabassum, Prof Dr. Shamim Akhter *Butterfly Optimization and Deep Learning to Classify Heart Sound Signal*, International Conference on Emerging Smart Computing and Informatics (ESCI 2025), AISSMS IOIT, Pune.
 - **Shuvashis Sarker**, *Transfer Learning and Explainable AI for Brain Tumor Classification: A Study Using MRI Data from Bangladesh*, 6th International Conference on Sustainable Technologies for Industry 5.0 (STI 2024).
- Under Review**
- Bidyarthi Paul, **Shuvashis Sarker**, Faika Fairuj Preotee, Shamim Rahim Refat, Shifat Ahmed, Tashreef Muhammad, *BanglaRegNER: A Named Entity Recognition Dataset for Bangla Regional Dialects*, under review at the 27th International Conference on Computer and Information Technology (ICCIT 2024).
 - **Shuvashis Sarker**, Faika Fairuj Preotee, Shamim Rahim Refat, Shifat Ahmed, Tashreef Muhammad, *An Approach Towards Identifying Bangladeshi Leaf Diseases through Transfer Learning and XAI*, under review at the 27th International Conference on Computer and Information Technology (ICCIT 2024).
 - **Shuvashis Sarker**, *Fuzzy Rank-Based Ensemble Learning for Eye Disease Classification Using Retinal Images: A Bangladeshi-Specific Dataset with Explainable AI Integration*, under review at the 13th International Conference on Electrical and Computer Engineering (ICECE 2024).
 - **Shuvashis Sarker**, Faika Fairuj Preotee, Shamim Rahim Refat, Shifat Ahmed, Tashreef Muhammad, Ashraful Alam, *An Exploratory Approach Towards Investigating and Explaining Vision Transformer and Transfer Learning for Brain Disease Detection*, under review at the 27th International Conference on Computer and Information Technology (ICCIT 2024).
 - **Shuvashis Sarker**, Shamim Rahim Refat, Faika Fairuj Preotee, Tanvir Shawon, Raihan Tanvir, *Comprehensive Lung Disease Detection Using Deep Learning Models and Hybrid Chest X-ray Data with Explainable AI*, under review at the 27th International Conference on Computer and Information Technology (ICCIT 2024).

Education

B.Sc. in Computer Science and Engineering with CGPA : 3.50 Ahsanullah University of Science and Technology (AUST) 2020 – 2024	HSC GPA: 5.00 Dhaka Residential Model College 2017 – 2019	SSC GPA: 5.00 Dhaka Residential Model College 2015 – 2017
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Projects

- Dental-Care**
- Developed a web-based application for managing dental appointments.
 - Utilized PHP, CSS, and JavaScript to create an intuitive and responsive interface.
- Hyacinth**
- Built a pharmacy management system using Java FX to streamline pharmacy operations and control inventory.
 - Implemented features for efficient inventory management and order processing.
- Death-Stalker**
- Created a 2D game using iGraphics in C within Microsoft Visual Studio.
 - Developed basic gameplay mechanics and user interaction for an engaging experience.

Miscellaneous Experience

Leadership and Activities	
– Treasurer, DRMC Science Club Served as the Treasurer and organized 4 National Science Carnivals.	2017 – 2019
– Organizing Secretary and Executive Committee Member, AUST Programming and Informatics Club Organized 2 Inter-University Programming Contests.	2022 – 2024