

Abu Noman Md Sakib

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<https://anmspro.github.io>

RESEARCH INTERESTS

- Deep Learning, Computer Vision, Machine Learning, Artificial Intelligence, Medical Image Analysis

EDUCATION

- **Khulna University of Engineering & Technology** Khulna, Bangladesh
B.Sc. in Computer Science and Engineering *February 2017 - April 2022*
CGPA: 3.39/4.00 (3.67 in last 60 credit hours)

RESEARCH EXPERIENCE

- **Khulna University of Engineering & Technology** January 2021 - April 2022
Thesis work with Dr. Sk. Mohammad Masudul Ahsan
 - Worked on classification and segmentation of hemorrhagic areas in human brain from CT scan images using deep learning and image processing techniques.
 - Contributed to the research ideation by actively designing iterative approaches to experiment on the researched classification method.
 - Employed state-of-the-art deep learning algorithms to perform transfer learning tasks for the classification task.
 - From scratch, implemented two non linear image transformation methods to perform twirl and spherical operation on the segmented images.
 - Implemented iterative approaches, ran the experiments, analyzed the results, and wrote the papers.
 - Actively participated in presenting both methodologies for two research conferences where our papers got published.

PUBLICATIONS

- **Abu Noman Md Sakib**, Nipa Anjum, Sk Md Masudul Ahsan: "**Segmentation of Hemorrhagic Areas in Human Brain from CT Scan Images**", 2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), Dhaka, Bangladesh, 2022, pp. 1-5. DOI: 10.1109/STI56238.2022.10103333
- Nipa Anjum, **Abu Noman Md Sakib**, Sk Md Masudul Ahsan: "**Classification of Brain Hemorrhage Using Deep Learning from CT Scan Images**", 2022 1st International Conference on Information and Communication Technology for Development (ICICTD), Khulna, Bangladesh, pp. 181-193. DOI: 10.1007/978-981-19-7528-8_15
- Masum Shah Junayed, Nipa Anjum, **Abu Noman Md Sakib**, Md Baharul Islam: "**A Deep CNN Model for Skin Cancer Detection and Classification**", WSCG 2021: full papers proceedings: 29. International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, p. 71-80. DOI: 10.24132/CSRN.2021.3101.8
- Masum Shah Junayed, **Abu Noman Md Sakib**, Nipa Anjum, Md Baharul Islam, Afsana Ahsan Jeny: "**EczemaNet: A Deep CNN-based Eczema Diseases Classification**", 2020 IEEE 4th International Conference on Image Processing, Applications and Systems (IPAS), Genova, Italy, 2020, pp. 174-179. DOI: 10.1109/IPAS50080.2020.9334929
- Afsana Ahsan Jeny, **Abu Noman Md Sakib**, Masum Shah Junayed, Ikhtiar Ahmed and Khadija Akter Lima: "**SkNet: A Convolutional Neural Network Based Classification Approach for Skin Cancer Classes**", 2020 23rd International Conference on Computer and Information Technology (ICCIT), December, 2020. DOI: 10.1109/ICCIT51783.2020.9392716
- Parthaw Goswami, A. B. M. Aowlad Hossain, **Abu Noman Md 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 2023) [Accepted, to be published in Springer Book Series "Algorithms for Intelligent Systems"].
- Parthaw Goswami, Abdullah Al Safi, **Abu Noman Md Sakib**, Tirtha Datta: "**Corn Leaf Disease Identification via Transfer Learning: A Comprehensive Web-Based Solution**", 5th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2023) [Accepted, to be published in Springer Book Series "Algorithms for Intelligent Systems"].

PROFESSIONAL EXPERIENCE

- **Red.Digital Limited** Full-time
Software Engineer May 2022 - Present
 - Responsible for assigned software developments of Red.Digital Limited.
 - Worked as a full stack web developer for multiple projects such as HRM, OTT.
- **Intelligent Machines Limited** Internship
AI Apprentice (Intern) May 2019
 - Responsible for dataset creation and supervision
 - Guiding and managing image data contributors

PROJECTS

- **A study on Brain Hemorrhage Classification & Segmentation from Head CT Scan Images: (Thesis)**
- **Traffic Signal Violation Detection System (GitHub):** A Computer Vision based Traffic Signal Violation Detection System from video footage using YOLOv3 & Tkinter. (GUI Included)
- **3D Ball Balancing Game using C++ and OpenGL (GitHub):** A Computer Graphics based project using C++ and OpenGL. This game was built for Computer Graphics Laboratory.
- **Candidate Recommendation System from Job Title (GitHub):** An NLP focused system to extract features from given job description and suggesting relevant candidates from the database according to CV.
- **Daily (iOS App) (GitHub):** iOS Based app with features such as Todo List, Weather Updates, Health Manager.
- **Smart Car Parking System (Hardware Project) (GitHub):** This project aims at providing a confusion free and easy parking. It was built using Arduino Uno.
- **Turbulent Traveler (Web Development) (GitHub):** A traveling blog website using asp.net framework.
- **Traveling Management System (Database) (GitHub):** This Project is simple oracle sql database project on traveling management system.

SKILLS

- **Languages:** Python, C, C++
- **Data Analysis:** Scikit-learn, TensorFlow, Keras, Pytorch
- **Data Visualization:** Matplotlib, Seaborn
- **Technology:** Git, LaTeX
- **Web Programming:** HTML, CSS, Javascript, Angular, React, Node, Laravel, Flask
- **DBMS:** Oracle, MySQL
- **Operating System:** Linux (Ubuntu, Parrot), Windows

STANDARDIZED TEST SCORES

- **International English Language Testing System (IELTS)** March, 2023
Overall - 7.5 (Listening - 8.5, Reading - 7.5, Writing - 6.5, Speaking - 7.5)
- **Graduate Record Examinations (GRE)** June, 2023
Overall - 311 (Quant - 162, Verbal - 149, AWA - 3.5)

CONTEST PROGRAMMING

- **Intra KUET Programming Contest:** Team: KUET_Palindrome, Position: 19th
- **Solved 400+ problems in various Online Judges:** [Codeforces](#), [UVa](#), [Hackerrank](#), [Vjudge](#)

HONORS AND AWARDS

- Government Scholarship in Higher Secondary Certificate Examination (Placed 575th in Dhaka Board)
- Champion at Fresher League 2017 (Bangla Parliamentary Debate Competition), KUET (2017)
- Champion at Inter House Bangla Parliamentary Debate Competition, MCPSC (2014)
- Semifinalist at Inter Cantonment Public Bangla Parliamentary Debate Competition (2014)

VOLUNTEER EXPERIENCE

- **Organizing Secretary at KUET Adventure Club** Khulna, Bangladesh
Conducted various activities on campus impacting 5000+ students. Jan 2019 - Jan 2022
- **Assistant General Secretary at CSE Association of KUET** Khulna, Bangladesh
Organized annual events within department along with the guidance of seniors and teachers. Feb 2018 - Feb 2019