

Kazi Saeed Alam

Erasmus Mundus Joint Master Degree in Medical Imaging and Applications' Student

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RESEARCH INTEREST

Medical Imaging, Computer Vision, Deep Learning, Natural Language Processing.

EDUCATION

MSc (Thesis), Imperial College London,
Erasmus Mundus Joint Master Degree,
Medical Imaging and Applications (MAIA)

September, 2021-September, 2023

Khulna University of Engineering & Technology (KUET)
Bachelor of Science in Computer Science and Engineering
Overall CGPA: 3.95 (out of 4.00)
Class rank: **1st /61**

Khulna, Bangladesh
2015-2019

LANGUAGE PROFICIENCY

- Bengali: **Native**
- English: **Fluent** (IELTS Test Score: **Overall 7.5**
(Reading **8.5**, Listening **8.5**, Speaking **7.0**, Writing **6.5**)

23 November, 2020

SELECTED ACADEMIC PROJECTS

Projects So far during MAIA master's: *all projects can be found here*

- **Temporal Image Registration using deep learning for 3D Fetal Echocardiography** (MSc Thesis at Imperial College London, UK)
- **Deep learning based Colorectal Lesions Segmentation** (Internship Project at Encov, Institute Pascal, France)
- **Automatic Skin Lesion Segmentation and Classification with traditional and deep learning approaches** (AIA-ML-DL academic Project)
- **Brain MRI tissue segmentation** (Medical Image Segmentation and Applications Final Project)
- **Chest CT volumes registration** (Medical Images Registration and Applications Final Project)
- **An efficient hybrid method for retinal blood vessel segmentation in eye fundus images** (Image Processing academic Project)
- **Classification challenge on Alzheimer's Disease using MRIs and Gene Expression data** (Statistical learning and Data Mining academic Project, Language: R)
- **Efficient Partitioning Algorithm for Parallel Multidimensional Matrix Operations by Linearization** (Undergrad thesis at KUET)

RESEARCH WORK

- **Publications:** *all publications can be found here*
 - Md. Nazmul Haque, A. A. M. Ashfaquul Adel, **Kazi Saeed Alam**, "Deep Learning Techniques in Cyclone Detection with Cyclone Eye Localization Based on Satellite Images.", Proceedings of the International Conference on Big Data, IoT, and Machine Learning, Lecture Notes on Data Engineering and Communications Technologies, vol 95. Springer, Singapore
 - Md. Jahid Hasan, SK Nahid Hasan, **Kazi Saeed Alam**, "Deep Convolutional Neural Network based Bangla Sign Language Detection on a Novel Dataset." Proceedings of the International Conference on Machine Intelligence

& Data Science Applications (MIDAS 2021), Lecture Notes on Data Engineering and Communications Technologies, Springer, Singapore

- **Kazi Saeed Alam**, Shovan Bhowmik, Priyo Ranjan Kundu Prosun, “**Cyber Bullying Detection: An Ensemble Based Machine Learning Approach.**”, Proceedings of the 3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021), IEEE, Tirunelveli, India
- Priyo Ranjan Kundu Prosun, **Kazi Saeed Alam** and Shovan Bhowmik, “**Improved Spam Email Filtering Architecture Using Several Feature Extraction Techniques.**”, Proceedings of the International Conference on Big Data, IoT, and Machine Learning, Lecture Notes on Data Engineering and Communications Technologies, vol 95. Springer, Singapore
- Shovan Bhowmik, Priyo Ranjan Kundu Prosun, **Kazi Saeed Alam**, “**A Novel Three- Level Voting Model for Detecting Misleading Information on COVID-19.**”, 6th International Conference on Emerging Applications of Information Technology (EAIT 2020), *Lecture Notes in Networks and Systems*, Springer.
- SK Nahid Hasan, Md. Jahid Hasan, **Kazi Saeed Alam**, “**Shongket: A Comprehensive and Multipurpose Dataset for Bangla Sign Language Detection.**”, 2021 International Conference on Electronics, Communications and Information Technology (ICECIT), Khulna, Bangladesh, 2021, pp. 1-4, IEEE
- Samin Yasar, Md. Mahfuzul Haque Gazi, **Kazi Saeed Alam**, “**Multi-level Voting Models in Cyber Aggression Detection for Bangla Texts.**” Proceedings of the International Conference on Big Data, IoT, and Machine Learning, Applied Informatics for Industry 4.0 published, Taylor & Francis.
- Iftekher Toufique Imam, Yamin Arafat, **Kazi Saeed Alam** and Shaikh Akib Shahriyar, “**DOC-BLOCK: A Blockchain Based Authentication System for Digital Documents.**”, Proceedings of the 3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021), IEEE, Tirunelveli, India
- **Kazi Saeed Alam**, Tanvir Ahmed Shishir, K M Azharul Hasan, “**Efficient Partitioning Algorithm for Parallel Multidimensional Matrix Operations by Linearization.**”, Information and Communication Technology for Intelligent Systems. ICTIS 2020. *Smart Innovation, Systems and Technologies*, vol 195. Springer, Singapore. https://doi.org/10.1007/978-981-15-7078-0_13
- Md. Rezwanul Haque, Md. Milon Islam, **Kazi Saeed Alam**, Hasib Iqbal, Md. Ebrahim Shaik, “**A Computer Vision based Lane Detection Approach.**”, *International Journal of Image, Graphics and Signal Processing (IJIGSP)*, Vol.11, No.3, pp. 27-34, 2019. DOI: 10.5815/ijigsp.2019.03.04

EXPERIENCE AND ACTIVITIES

- **Assistant Professor**, Dept. of Computer Science and Engineering, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh (02 Dec, 2023 - Present)
- **Lecturer**, Dept. of Computer Science and Engineering, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh (20 Aug, 2019 - 02 Dec, 2023)
- **Lecturer**, Dept. of Computer Science and Engineering, **BRAC University**, Dhaka, Bangladesh (14 May, 2019 - 19 Aug, 2019)
- **Research Intern, Endoscopy and Computer Vision Lab**, Institut Pascal, Université Clermont Auvergne, France (July-September, 2022)
- **Participant**, 16th EXCITE Zurich Summer School on Biomedical Imaging, **University and ETH Zurich** (5-16 September, 2022)

TECHNICAL SKILL

Programming	: Python, C, C++, Java, R, MATLAB, PHP
Data analysis	: Pytorch, Scikit-learn, Pillow, Tensorflow, Keras
Data visualization	: Simple ITK, Matplotlib, Excel
Web and Mobile Development	: Android, Swift, Spring Boot, Laravel, Flask, ReactJS, Bootstrap
Database Management	: MySQL, SQLite, PostgreSQL
Operating system	: Windows, Linux
Version Control	: Git
Hands-on	: LaTeX, Cisco Packet Tracer, OpenCV, OpenGL