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, *September, 2021-Present*
Medical Imaging and Applications (**MAIA**)

Khulna University of Engineering & Technology (KUET) *Khulna,Bangladesh*
Bachelor of Science in Computer Science and Engineering *2015-2019*
Overall CGPA: **3.95** (out of 4.00)
Class rank: **1st /55**

LANGUAGE PROFICIENCY

- Bengali: **Native**
- English: **Fluent** (**IELTS** Test Score: **Overall 7.5** *23 November, 2020*
  (Reading **8.5**, Listening **8.5**, Speaking **7.0**, Writing **6.5**)

SELECTED ACADEMIC PROJECTS

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

- **3D Deep Learning Segmentation of Fetal Echocardiography for Automatic Detection of Fetal Heart Abnormalities (MSc Thesis at Imperial College London, UK)**
- **Diagnostic and therapeutic management of superficial tumors of the digestive tract assisted by artificial intelligence**" (Internship Project at Encov, Institute Pascal, France)
- **Automatic Skin Lesion Segmentation and Classification with traditional and deep learning approached** (ML-DL academic Project)
- **An efficient hybrid method for retinal blood vessel segmentation in eye fundus images** (Image Processing academic Project)
- **A Comparative Study of Segmentation Techniques of Kidney from Renal Magnetic Resonance Imaging (Deep Learning and Traditional Approaches).** (Medical Sensors 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. Ashfaqul 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

- **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)
- **Lecturer**, Dept. of Computer Science and Engineering, **BRAC University**, Dhaka, Bangladesh (14 May, 2019 to 19 Aug, 2019)
- **Lecturer**, Dept. of Computer Science and Engineering, Khulna University of Engineering & Technology (**KUET**), Khulna, Bangladesh (20 Aug, 2019 to **Present**)

TECHNICAL SKILL

Language	**: Python, R, C, C++, Java, Android Programming, Swift**
Data analysis	**: Scikit-learn, Tensorflow, Keras, Pytorch, MATLAB**
Data visualization	**: Matplotlib, Excel**
Web programming	**: HTML, CSS, PHP, Ajax, Javascript, XML**
DBMS	**: Oracle 10g, MySQL**
Operating system	**: Windows, Linux**
Version Control	**: Git**
Hands-on	**: LaTeX, Cisco Packet Tracer, OpenCV, OpenGL**