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## SHAFKAT KHAN SIAM

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### RESEARCH INTEREST

Deep Neural Network, Self-supervised process, Image Processing, Machine Learning

### EMPLOYMENT

<b>Graduate Research Assistant</b>	<b>Computer Vision Lab, Chosun University</b>	<b>April 2021 - February 2023</b>
<ul style="list-style-type: none"><li>Developed and implemented advanced face detection and recognition algorithms for various projects.</li><li>Designed and developed code for self-supervised image denoising techniques.</li><li>Created neural network models for image-to-image conversion.</li><li>Troubleshooting and refining recent work on segmentation-based deep learning methods and results for different methods for the co-authored papers.</li></ul>		
<b>Project Engineer</b>	<b>Robi Axiata Ltd.</b>	<b>October 2020 - November 2020</b>
<ul style="list-style-type: none"><li>Enhanced network performance by increasing the allocated bandwidth for base transceivers.</li><li>Adhering to regulations while creating or removing beam formations through zonal controllers.</li></ul>		
<b>System Engineer</b>	<b>Grameenphone Ltd.</b>	<b>July 2019 - June 2020</b>
<ul style="list-style-type: none"><li>Conducted 24/7 alarm surveillance of network elements and systems.</li><li>Escalated, following up, and reporting alarms until resolved.</li><li>Performed stability checks based on system benchmark KPIs.</li><li>Provided terminal-based support during planned activity execution in the network and ensuring successful completion.</li><li>Enhanced the experience for content providers.</li></ul>		

### EDUCATION

<b>Gwangju, South Korea</b>	<b>Chosun University</b>	<b>March 2021 - February 2023</b>
<ul style="list-style-type: none"><li><b>M.Sc.</b> in Computer Engineering (CE)</li><li><b>Thesis title:</b> Aggregated multiscale self-supervised denoising</li><li><b>Thesis code:</b> <a href="https://github.com/khan022/aggregated-multiscale-self-supervised-denoising">https://github.com/khan022/aggregated-multiscale-self-supervised-denoising</a></li><li><b>Thesis Domain:</b> Image Processing &amp; Machine Learning</li><li><b>CGPA:</b> 4.06 out of 4.50 (90.2%)</li><li><b>Scholarship:</b> Merit order scholarship throughout 2 years' study of M.Sc.</li></ul>		
<b>Khulna, Bangladesh</b>	<b>Khulna University of Engineering &amp; Technology (KUET)</b>	<b>December 2014 - March 2019</b>
<ul style="list-style-type: none"><li><b>BSc.</b> in Electronics and Communication Engineering (ECE)</li><li><b>Thesis title:</b> Classification of Chest X-Ray images to detect pneumonia using Deep Residual Network</li><li><b>Thesis Domain:</b> Image Processing &amp; Machine Learning</li><li><b>CGPA:</b> 3.01 out of 4.00 (64.72%)</li></ul>		

### PUBLICATIONS

<b>Journal Articles</b>
<ul style="list-style-type: none"><li>Masud An Nur Fahim, Nazmus Saqib, <b>Shafkat Khan Siam</b>, Ho Yub Jung, <i>Rethinking Gradient Weight's Influence over Saliency Map Estimation</i>, MDPI, Sensors, 22 (17), 6516, 2022. <b>DOI:</b> 10.3390/s22176516</li><li>Masud An Nur Fahim, Nazmus Saqib, <b>Shafkat Khan Siam</b>, Ho Yub Jung, <i>Denoising Single Images by Feature Ensemble Revisited</i>, MDPI, Sensors, 22 (18), 7080, 2022. <b>DOI:</b> 10.3390/s22187080</li></ul>

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#### LANGUAGES AND TECHNOLOGIES

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- **Programming Languages:** Python, C, C++, MATLAB
- **Machine Learning Tools:** Tensorflow, Keras, PyTorch, scikit-learn
- **Framework:** Arduino
- **SCB:** Raspberry Pi
- **PCB/Circuit design:** Proteus

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#### STANDARDIZED TEST SCORES

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- **International English Language Testing System (IELTS):** 26-Oct-2019

Overall	Listening	Reading	Writing	Speaking
7.5	8.5	8.5	6.5	7.0

- **Graduate Record Examinations (GRE):** 12-Oct-2020

Quantitative Reasoning	Verbal Reasoning	Analytical Writing
162	147	3.5

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#### VOLUNTEERING ACTIVITIES

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- **Committee Member**, Manipulators of Electrons Club (Nov 2017 - Mar 2019)
- **Co-founder**, Innovation and Research Association for Students (IRAS) - KUET, (Jul 2018 - Mar 2019)
- **Organizer:** Technival 2019 (nationwide technical fest)

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#### REFERENCES

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**Dr. Muhammad Yeasir Arafat**

- **Assistant Professor**, Computer Engineering, Chosun University
- myarafat@chosun.ac.kr

**Dr. Muhammad Usman**

- **Assistant Professor**, Computer Engineering, Chosun University
- usman@chosun.ac.kr

**Dr. Muhammad Morshed Alam**

- **Assistant Professor**, Computer Science Engineering, American International University Bangladesh
- dr.malam@aiub.edu