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RESEARCH INTEREST

Deep Neural Network, Self-supervised processes, Image Processing, Machine Learning, Wireless Networks, Edge Computing, Resource Optimization, and AI Integration in Communication Systems

EMPLOYMENT

Graduate Research Assistant	NASC Research Group, University College Cork	April 2025 - Current
<ul style="list-style-type: none">Performing research on communication technology with AI.Working on different research projects.Writing research papers for journal and conferences.		
Artificial Intelligence Engineer	Banglalink Digital Communications Ltd.	January 2025 - April 2025
<ul style="list-style-type: none">Developed a zero-shot system for audio-to-sentiment analysis classifier.Worked on the extracting insights for different application and hardware based logs.Planned for creating time series based projection for resource allocation.		
Machine Learning Engineer	Rokomari.com Ltd.	March 2024 - January 2025
<ul style="list-style-type: none">Developed a Recommendation Engine for the e-commerce site Rokomari.com.Created AI powered chat bot system to intelligently answer customer queries.Designed an advertisement panel for targeted advertisements to relevant users.		
Graduate Research Assistant	Computer Vision Lab, Chosun University	April 2021 - February 2023
<ul style="list-style-type: none">Developed and implemented advanced face detection and recognition algorithms.Designed and developed code for self-supervised image denoising techniques.Created neural network models for image-to-image conversion.Troubleshoot and refined results for segmentation-based deep learning methods for co-authored papers.		
Project Engineer	Robi Axiata Ltd.	October 2020 - November 2020
<ul style="list-style-type: none">Enhanced network performance by increasing the allocated bandwidth for base transceivers.Performed online checking to update the power allocation for different tools in different parts of the network.Adhered to regulations while creating or removing beam formations through zonal controllers.		
System Engineer	Grameenphone Ltd.	July 2019 - June 2020
<ul style="list-style-type: none">Conducted 24/7 alarm surveillance of network elements and systems.Escalated, followed up, and reported alarms until resolved.Performed stability checks based on system benchmark KPIs.Provided terminal-based support during planned network activities and ensured successful completion.		

EDUCATION

University College Cork	Cork, Ireland	April 2025 - Current
<ul style="list-style-type: none">Ph.D. in Computer Science & Information Technology (CSIT)Thesis Domain: Wireless Communication & Artificial IntelligenceScholarship: Funded through Research Ireland funding.		

Chosun University

Gwangju, South Korea

March 2021 – February 2023

- **M.Sc.** in Computer Engineering (CE)
- **Thesis title:** Aggregated Multiscale Self-Supervised Denoising
- **Thesis code:** GitHub Link
- **Thesis Domain:** Image Processing & Machine Learning
- **CGPA:** 4.06 out of 4.50 (90.2%)
- **Scholarship:** Merit-based scholarship throughout 2 years of M.Sc.

**Khulna University of Engineering
& Technology (KUET)**

Khulna, Bangladesh

December 2014 – March 2019

- **B.Sc.** in Electronics and Communication Engineering (ECE)
- **Thesis title:** Classification of Chest X-Ray Images to Detect Pneumonia using Deep Residual Network
- **Thesis Domain:** Image Processing & Machine Learning
- **CGPA:** 3.01 out of 4.00 (64.72%)

PUBLICATIONS

- **Masud An Nur Fahim, Nazmus Saqib, Shafkat Khan Siam**, Ho Yub Jung, Rethinking Gradient Weight's Influence over Saliency Map Estimation, MDPI, Sensors, 22(17), 6516, 2022.
- **Masud An Nur Fahim, Nazmus Saqib, Shafkat Khan Siam**, Ho Yub Jung, Denoising Single Images by Feature Ensemble Revisited, MDPI, Sensors, 22(18), 7080, 2022.

LANGUAGES AND TECHNOLOGIES

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

STANDARDIZED TEST SCORES

- **IELTS (07-Oct-2023):** Overall: 7.5; Listening: 8.5; Reading: 8.0; Writing: 6.5; Speaking: 6.5
- **GRE (12-Oct-2020):** Quantitative: 162; Verbal: 147; Analytical Writing: 3.5

VOLUNTEERING ACTIVITIES

- **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)