SHAHANAZ AHMED NISHI

Email - asahanaz207@gmail.com.com
Current Address: Kayseri, Turkey
Parmanent Address: Dampara 1no lane, Chittagong, Bangladesh
Contact - +905021294428
Portfolio - https://nishis-portfolio.netlify.app/
Linkedin - https://www.linkedin.com/in/shahanaz-ahmed-nishi/

ACADEMIC PROFILE

I'm currently working towards my Master of Science in Computer Engineering at Erciyes University as a recipient of the Turkish Government Scholarship. My research dives into deep learning applications in computer vision, with a special focus on detecting damage after earthquakes using remote sensing imagery and explainable artificial intelligence. I'm also looking to continue my journey with doctoral research that explores advanced AI solutions to tackle real-world societal challenges.

RESEARCH INTERESTS

Artificial Intelligence, Deep Learning, Reinforcement Learning, Computer Vision, Remote Sensing Image Analysis, Explainable Artificial Intelligence (XAI), Post-Disaster Damage Assessment.

EDUCATION

Master of Science in Computer Engineering | 2024-Present
Erciyes University, Kayseri, Türkiye
CGPA: 4.00 / 4.00
Thesis: Post-Earthquake Damage Detection from High-Resolution Remote Sensing Images Using Deep Learning and Explainable Artificial Intelligence

Bachelor of Science in Computer Science and Engineering | 2018-2023
International Islamic University Chittagong
CGPA: 4.00 / 4.00

PUBLICATIONS

Chowdhury, J. I., Ahmed Nishi, S., Aymon, U., Ahsan, T., Chowdhury, S. A., & Patwary, M. J. A. (2025). An approach to ensure public safety using masked face recognition. In Proceedings of the 2nd International Conference on Big Data, IoT and Machine Learning (BIM 2023) by Taylor & Francis. https://doi.org/10.1201/9781003605508-11

RESEARCH EXPERIENCE

Master's Thesis: Explainable Deep Learning for Post-Earthquake Building Damage Assessment Erciyes University | 2024 – Present

- Designing a semantic segmentation framework for automated post-earthquake building damage assessment using high-resolution satellite imagery.
- Leveraging datasets provided by Maxar Technologies to classify damaged and undamaged structures at pixel level.
- Implementing and comparing CNN-based architectures (U-Net variants) and Vision Transformer models for robust feature extraction and spatial reasoning.
- Integrating Explainable AI (XAI) techniques, including Grad-CAM and attention-based visualization, to analyze model decision mechanisms and improve interpretability.
- Evaluating model performance using segmentation metrics (IoU, Dice coefficient, precision/recall) to ensure reliability for real-world disaster response applications.
- Aiming to develop a transparent and scalable AI framework to support emergency response planning and policy decision-making in earthquake-prone regions.

WORK EXPERIENCE

Teaching assistant | 2022 – 2023
International Islamic University Chittagong
- Assisted in undergraduate laboratory sessions and programming courses.
- Provided academic support and mentoring to students in data structures and algorithm related coursework.
- Evaluated assignments and supported faculty members in course coordination.

Job Placement Executive | June, 2023 – November, 2023
Programming Hero| Remote
- Guided students in technical skill development and career preparation.
- Conducted mock interviews and resume review sessions.
- Coordinated with hiring partners to support graduate placement initiatives.

TECHNICAL SKILLS
Programming: Python, C, C++
AI & Data Science: PyTorch / TensorFlow (whichever you use), Deep Learning
Web Technologies: HTML, CSS, JavaScript, React, Node.js
Tools: Git, Google Colab, VS Code, CVAT
Databases: MongoDB, PhpMyAdmin.

PROJECTS
Dreamers University (Team Project) | Live Website Link | GitHub Client Site Link | GitHub Server Link
- Dreamers university is a university management system where a university can handle all the activity of a university on a single website.
- It can have different access for users like students, Teachers, admin dashboards, and employee dashboards.

My Individual task
- It was a group project of six members where I worked on both the front-end and back-end parts using a new technology, Next js.
- I have also used Messenger Chatbox which will be shown on the homepage.

Technology Used: HTML, CSS,Tailwind, Daisy UI, Next js, Node.js, Express js, Firebase, MongoDB, Vercel.

EXTRACURRICULAR ACTIVITIES
- General Secretary, IIUC Computer Club | 2021 – 2023

Organized
- Winter fest 2021
- NGPC Contest–2021 & Bootcamp Prize Giving Ceremony 2021
- Farewell Felicitations & Fresher's Reception
- Intra University Programming Contest, Autumn 2021
- Webinar on Programming Carrier Guidelines with alumnus
- Study Tour of CSE Dept 2022
- CSE FEST 2022
- IIUC Powerpuff Girls Programming Contest 2022 & Bootcamp Prize Giving Ceremony 2022

Volunteered
- SOSYAL GİRİŞİMCİLİK VE GÖNÜLLÜLÜK ÇALIŞMALARI (Yurtdışı Türkler ve Akraba Topluluklar Başkanlığı) 2025
- Fight Against Winter 2022
- 25th Anniversary of IIUC
- 5th Convocation of IIUC
- IEEE 3rd ICISET 2022
- Brac IT Tech Summit And Carrier Guideline

CERTIFICATIONS

- ACİL DURUM EYLEMLERİ VE DOĞADA HAYATTA KALMA (Yurtdışı Türkler ve Akraba Topluluklar Başkanlığı)
- SOSYAL GİRİŞİMCİLİK VE GÖNÜLLÜLÜK ÇALIŞMALARI (Yurtdışı Türkler ve Akraba Topluluklar Başkanlığı)
- Completed Endgame, Programming Hero.
- Complete Web Development, Programming Hero.
- Skill Development For Mobile Game & Application ICT Division 2022, Certified as a participator.
- IIUC Inter-University Hackathon 2020, Certified as a participator.
- Grace Hopper Girls' Programming Camp, Certified as a participator.
- 3rd International Conference on Innovations In Science, Engineering, And Technology (ICISET 2022) - certified as Volunteer **|** 5th Convocation of IIUC - certified as Volunteer **|** Fight Against Winter 2022 - certified as Volunteer **|** CSE Fest 2022 - Certificate of appreciation

LANGUAGE SKILLS

- Bangla (Native)
- English (B2)
- Turkish (C1 – Certified)
- Hindi & Urdu (Conversational)

REFERENCE

FEHİM KÖYLÜ
Assistant Professor, Dept of CSE
Erciyes University, Turkye
Email: fehimkoylu@erciyes.edu.tr and fehimkoylu@gmail.com
Phone: +90 352 207 6666 Extension: 32580