

Ireen Ara Haque

 github.com/Ireen  Ireen.github.io  linkedin.com/Ireen-Ara  [:ireenara123@gmail.com](mailto:ireenara123@gmail.com)


Education

Noakhali Science and Technology University

November 2018-May 2024

Bachelor of Science in Computer Science and Telecommunication Engineering

CGPA:3.48/4.00

- Participated in the National Girls' Programming Contest(NGPC)
- **Thesis:** "Work-Life Balance Prediction For Academic Women In Bangladesh Using Machine Learning," supervised by Associate Prof. Dr. Nazia Majadi 

Relevant Courses: Data Structure and Algorithms, Artificial Intelligence, Digital Image Processing, Computer Graphics, Computer Networking, Cryptography.



Research Interest

Machine Learning, Deep Learning, Image Processing, Computer Vision, Medical Image Processing



Publication

- Umme Ayman,Mohammad Asifur Rahim,**Ireen Ara Haque**, "EfficientNet-Based Deep Learning Model for Advanced Waste Classification".2024 IEEE CONFERENCE ON COMPUTING, APPLICATIONS AND SYSTEMS (COMPAS). (Under-Review) 

On Going Research

- **"Work-Life Balance Prediction For Academic Women In Bangladesh Using Machine Learning,"** This research focuses on collecting data from the real world, Analysing the condition of working women using different feature extraction techniques, and predicting the satisfaction of women in their work using ML models 
- **"Comparative Analysis of Hybrid VGG16-LSTM and VGG19-LSTM Models for Brain Tumor detection in MRI images"**. Comparative Analysis Among Four EfficientNet Models and two hybrid models over two public brain tumor datasets have been done in this research. 
- **"Polyp segmentation using Different U-Net Architectures-A Comparative Analysis"**. This research aims to Analyse different variants of U-net models for segmentation of polyps using multiple public datasets.

Awards and Achievements

- Participated at NSTU PI DAY Programming Contest 2019 
- Participated at CSTE Carnival Programming Contest
- Participated at the Regional Workshop on Networking Basics and Campus Network Design(WNBCND-3) 

Skills

- **Programming language:** C/C++,java,Matlab,Python,Latex
- **Data Visualization and Analytics:** Matplotlib, Seaborn
- **Tools:** Git, Jupyter Notebook, Visual Studio Code, Visual Studio, CodeBlocks,NetBeans,Google Colab

Projects

- **Billing Management System**

This is a Windows application-based project. JFrame, Mysql Database, and Netbeans IDE was used in this project. This project can be used in the cafe shop for billing purposes.

- **School Management System**

This project aims to use the JFrame, MySQL database, and Netbeans IDE to construct a school management system. This project can store and manage information of students and teachers such as their IDs, contacts, addresses, etc.

- **Online Food Ordering System**

There is an admin side for controlling menus and data in the PHP and MySQL Online Food Ordering System, and a client side for browsing, choosing, and placing orders. Clients can examine their order, place an order, check shipping information, and add products to a cart.

References

Dr. Nazia Majadi

Associate Professor, Department of Computer Science and Telecommunication Engineering
Noakhali Science and Technology University
Email:nazia_majadi@nstu.edu.bd