

# EFTI SHIRAZ

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## EDUCATION

Bachelor of Engineering in Computer Science and Engineering

comilla University

Jan 2019 – Jan 2024

GPA - 3.26/4

## PROJECTS

### BENGALI CHARACTER(SHATAKIA) CLASSIFICATION

- Developed a Convolutional Neural Network(CNN) model to predict hand written digits on Customize Bangla character dataset.
- This is selection by under UCG scholarship project

### An IoT-based Irrigation Alert System for Bangladesh

- Developed a low-cost IoT system using sensors and GSM to alert farmers about optimal irrigation times.
- Aimed to improve water efficiency and crop yield for rural Bangladeshi agriculture.
- This is selection by under UCG scholarship project

### Mobile SkinDoc: Lightweight Transfer Learning Fusion of MobileNet and EfficientNet for Skin Disease Classification on Mobile Devices

- Final year Thesis
- Propose an automated framework for skin disease recognition based on pre-trained CNN architectures .For a more robust and generalization model, augmentation and transfer learning techniques are included.
- Propose and implement a Android application to recognize skin diseases remotely

### Sign Language identification

- Implemented a technology For accurate identification and interpretation of bangla sign letters.

### Student Result Management System

- web based application to store and manage student details and results using PHP and MySQL

## ACHIEVEMENTS

- Winner at ESDG4BD Grace Hopper Girls Programming Camp: Individual Programming
- Participated in the 2022 National Girls' Programming Contest (Rank:20)
- Participated in the Ada Lovelace National Girls' Programming Contest 2022 (Rank:27).

## PROGRAMMING SKILLS

C++ Python PHP MySQL  
machine learning Matlab HTML

## TOOLS UTILITIES

- Keras • tkinter • Tensorflow • Pytorch
- scikit-learn • pandas • Anaconda Navigator • Google Colab • Visual Studio • Pycharm • Codeblocks

## FIELD OF INTEREST

- Competitive Coding
- Web Development
- Machine Learning

## COURSEWORK

- Data Structure
- Design and Analysis of Algorithms
- Object Oriented programming (C++)
- Discrete Mathematics
- Operating Systems
- database systems
- Computer Architecture and Organisation

## EXPERIENCE

Research Assistant | Comilla University  
February,2023-January,2025

Implemented deep learning algorithms and prepared technical reports for collaborative research projects.

## REFERENCES

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