

# Syem Aziz

📞 01979289175

✉ [syemaziz@gmail.com](mailto:syemaziz@gmail.com)

🌐 [www.linkedin.com/in/syemaziz](https://www.linkedin.com/in/syemaziz)

🐙 [github.com/sanz47](https://github.com/sanz47)

## Education

### Islamic University of Technology

Expected June 2024

Bachelor of Science in Computer Science (CGPA: 3.75 / 4.00)

### Notre Dame College

June 2019

HSC (GPA: 5.00 / 5.00)

## Experience

### Tree Plus Plus

Jan 2023 – Jul 2023

UI/UX Developer

Uttara, Dhaka

- Designed and developed the Tree Plus Plus website using Next.js and TailwindCSS, enhancing user interaction and streamlining user experience.
- Created the initial prototype in Figma, implementing responsive design principles and interactive elements to ensure a seamless and engaging user interface.

## Projects

### Human Speech Sentiment Analysis | Python

- Python-based Bangla speech sentiment analyzer that utilizes a Convolutional Neural Network (CNN) architecture to detect emotions from user-spoken sentences.
- Utilized MFCC techniques to train a custom sentiment classifier on annotated Bengali language datasets, enabling the model to accurately detect and classify sentiment polarity (happy, sad, fear, surprise, angry, disgust or neutral).

### GAFFER | HTML, CSS, JavaScript

- This football management software, developed using HTML, CSS, and JavaScript, provides a comprehensive platform for managing various aspects of football teams.
- The app serves as a platform for tracking player, physio information, match details, and player-specific data, facilitating efficient team management and analysis for coaches and team administrators.

## Thesis

### Medical Image Classification using Vision Transformer and Adaptive Subspace Techniques | Python

- Developing a state-of-the-art medical image classification system leveraging Vision Transformer (ViT) and adaptive subspace techniques to classify diseases from chest X-ray images using the NIH Chest X-ray dataset. The goal is to achieve improved accuracy in disease detection by integrating advanced machine learning methods to enhance the model's ability to learn from various data subspaces.
- <https://github.com/sanz47/Medical-Image-Classification>

## Publications

### Improved Speech Emotion Recognition in Bengali Language using Deep Learning

- Published in **2023 26th International Conference on Computer and Information Technology (ICCIT)**. This study introduces a CNN-based solution leveraging MFCC features and data augmentation techniques for SER in Bengali. The proposed model achieved high accuracies of 90% and 78% on SUBESCO and BanglaSER datasets, respectively. Unlike previous models, it maintains consistent performance across both datasets, demonstrating its robustness in Bengali emotion recognition from speech signals.
- <https://doi.org/10.1109/ICCIT60459.2023.10441053>

## Achievements

### ASR for Regional Dialects - Datathon Winner

- ASR for Regional Dialects is a competition providing annotated speech data of 10 regional dialects in of Bangladesh, and competitors are tasked with creating speech to text recognition algorithms capable of comprehending the language of the entire country.
- <https://www.kaggle.com/competitions/ben10/overview>

## Additional Information

🌐 [behance.net/syemaziz](https://behance.net/syemaziz)

📊 [kaggle.com/syemaziz](https://kaggle.com/syemaziz)

🔗 [codeforces.com/profile/Sanz](https://codeforces.com/profile/Sanz)