Syem Aziz

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Education

Islamic University of Technology June 2024
Bachelor of Science in Computer Science (CGPA: 3.74 / 4.00)

Notre Dame College June 2019
HSC (GPA: 5.00 / 5.00)

Experience

Grameen Communications Jul 2023 – Sept 2023
Machine Learning Intern *Mirpur, Dhaka*

- Developed a conversational AI chatbot leveraging natural language processing (NLP) techniques to enhance user interaction and streamline customer support within the G-Banker platform.
- Developed a model for predicting credit score of the users, gained experience in data analytics using Power BI, Tableau and SQL

Bangladesh University of Business & Technology Aug 2024 – Present
Lecturer *Mirpur, Dhaka*

- Teaching undergraduate courses on Algorithms and Problem-Solving Techniques, with a focus on fundamental concepts, algorithmic analysis, and real-world applications.
- Employing the Outcome-Based Education (OBE) methodology to align learning outcomes with course content, fostering a student-centered learning environment.

Projects

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

Ethical Story Classification | *Python, BERT*

- Developed a model capable of differentiating between ethically right and wrong stories using the BERT model.

NimBus | *C++*

- Developed a strategy game based on the NIM mathematical game, where players take turns removing 1 or 2 objects from stacks. Points are awarded for clearing stacks, and the player with the most points wins.
- https://github.com/sanz47/NimBus

Publications

Improved Speech Emotion Recognition in Bengali Language using Deep Learning

- Published in the 2023 **26th International Conference on Computer and Information Technology (ICCIT)**, this study presents a CNN-based approach using MFCC features and data augmentation for Speech Emotion Recognition (SER) in Bengali. The model achieved accuracies of 90% on SUBESCO and 78% on BanglaSER, demonstrating consistent performance and robustness across both datasets.
- 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

kaggle.com/syemaziz Bē behance.net/syemaziz </> codeforces.com/profile/Sanz(500+ Solved)