Sheikh Araf Noshin

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Research Interest

- Deep Learning
- Natural Language Processoing

Education

2018 – 2022
Dhaka, Bangladesh

BSc in Computer Science and Engineering
BRAC University
CGPA of 3.93 out of 4.00.
Thesis: Classification of benign and malignant cells from ultrasound scans using Deep Learning.

Research Projects

Longitudinal Multimodal Neuroimaging, Clinical, and Cognitive Dataset for Normal Aging and Alzheimer's Disease

- used dataset of Open Access Series of Imaging Studies of MRI scans
- preprocessed the data, analyzed the correlation between variables through feature engineering
- applied time-distributed layered CNN model to accurately predict the data

A Federated Learning approach for text classification using NLP

- worked on a dataset with over 21000 unique texts
- sentiment analysis using deep learning (CNN, GRU, Bi-lstm)
- implemented federated learning by training the algorithm across multiple decentralized servers and adjoining them using ensemble learning.

Classification of benign and malignant cells from ultrasound scans using Deep Learning.

- preprocessed and used a dataset of over 3000 ultrasound scanned image
- preprocessed data and implemented different state-of-the-art convolutional neural network models
- made a comparison paper in terms of accuracy
- built a custom model with a multiple-layered architecture and hyperparameter tuning to achieve higher accuracy

Professional Experience

2022 – present

Lecturer
Department of Computer Science and Engineering, BRAC University
Course taught :

- Introduction to Programming: Python
- Introduction to Object-Oriented Programming
- Data Structure & Algorithm
- Computer networks
- Database System

Skills

Programming ●●●●○
Experienced in using Python and Java. (frameworks familiar with: TensorFlow, PyTorch, Pandas, NumPy)

Data science ●●●○○
processing, analyzing, scaling, and feature engineering with frameworks: Pandas, and NumPy. Also, Implementing Machine Learning Algorithms to predict and classify unknown data.

Awards and Scholarships

BSc graduation certificate
Graduated with the highest distinction.

Brac scholarship for outstanding results for undergraduate studies

References

Available upon request