

Yamin Adnan

Computer Science & Engineering Graduate

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Education

BRAC University

2021-2025

Bachelor of Science in Computer Science & Engineering | CGPA: 3.65

Cantonment English School and College, Chittagong

HSC | Science | GPA 5.00 | Passing Year: 2020

SSC | Science | GPA 5.00 | Passing Year: 2018

Experience

Junior Executive, Administrative and Creative department, Football Club Of BRAC University March 2022 – August 2022

- In this role, I was responsible for designing creative social media posts for the club's social media handle and handling various administrative activities during events.

Assistant Secretary, Performance department, BRAC University Cultural Club October 2023 – May 2024

- In this role, I was responsible for performing during different events of the cultural club and have performed during different plugged and unplugged shows.

Recent Projects

Gumbel-Softmax Feature Selection Networks for high-dimensional medical image analysis

- Gumbel-Softmax based discrete feature selection inside 3D CNN pipelines to identify informative voxels and perform classification on high-dimensional MRI data.
- Tech Stack: PyTorch, NumPy, Pandas, NiLabel, Scikit-learn, Matplotlib, TorchIO*

Resonance

- One-stop music platform to shop/rent instruments, book studios/pads, hire session musicians, and collaborate with others.
- Tech Stack: MERN (MongoDB, Express, React, Node.js)*

BrickByte

- A real estate project where users can look for properties to buy/rent through advanced search as well as sell/rent their properties by uploading their listings.
- Tech Stack: MERN (MongoDB, Express, React, Node.js)*

Research Project

Optimizing the Early Detection of Dementia by Tracking the Progression of Parkinson's Disease

Using Deep Learning and Computer Vision

- Cohort Selection:** Define PD patients (with/without cognitive impairment) and healthy controls from PPMI dataset; select subjects with 4-5 years longitudinal visits.
- Pipeline:** Phase 1 & 2: PD detection using 3D Inception V3 on baseline MRI then Cognitive impairment prediction with MRI + clinical features. Phase 3: Longitudinal disease trajectory learning and dementia risk forecasting.
- Modeling:** Spatio-temporal deep learning on multi-visit MRI to capture progression patterns, estimate time-to-dementia, and identify transition points in disease evolution.
- Evaluation:** Model performance evaluated using AUC, Accuracy, F1, and MAE, with explainability through Attention Mechanism to support clinical interpretability.

Technical Skills

- Languages:** Python, C/C++, SQL, Assembly
- Database:** MongoDB, MySQL
- Python Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
- Frameworks:** Tensorflow, Pytorch, MERN Stack
- Design Tools:** Figma, Cisco Packet Tracer
- Analytical Tools:** Google Analytics 4, Power BI
- Office skill:** Sheets, Word, PowerPoint
- Version Control:** Git, GitHub

Certification & Courses

- Cleaning Data in Python - DataCamp
- Feature Engineering for Machine Learning in Python - DataCamp
- Supervised Learning with scikit-learn - DataCamp
- Introduction to Deep Learning in Python - DataCamp

References

Engr. Mohammad Kayes Ur Rashid

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