Md Muhaiminul Islam Nafi

Gopibag, Dhaka-1203 | +8801704953445 | nafiislam964@gmail.com | LinkedIn | GitHub | Portfolio1 | Portfolio2

Objective

I am Md. Muhaiminul Islam Nafi. I am currently an undergrad student of Computer Science at BUET. I want to build a successful career using my technological knowledge and relevant skills. I want to contribute to the betterment of the place I am allowed to work for. I also want to hone my other skills like time management, fast adaptability, and creativity.

Education

Motijheel Govt. Boys' High School *2015-2017*

SSC — GPA: 5.00/5.00

Notre Dame College Dhaka *2017-2019*

HSC — GPA: 5.00/5.00

Bangladesh University of Engineering and Technology *2020-present*

B.Sc. in Computer Science and Engineering — CGPA: 3.96/4.00 (up to 7 terms)

Skills

Programming Languages	Python | Javascript | Typescript | C | c++ | Assembly (x86, MIPS) | Bash | Java | LaTeX
Web Development	HTML | CSS | Express | React | Svelte | Django | Next.js | Figma | Docker | Spring Boot
Machine Learning	Matplotlib | NumPy | Pandas | Scikit-learn | PyTorch
Tools and Technologies	Design Patterns | Git | Microservices architecture | Swagger API | Postman | MISP
Databases	MySQL | PostgreSQL | Oracle | Prisma ORM
Content Management	WordPress

Publications

Prediction of protein-carbohydrate binding sites from protein primary sequence *(Under review)*
In this study, we propose StackCBEmbed, an ensemble machine learning model to effectively classify protein-carbohydrate binding interactions at the residue level. StackCBEmbed combines traditional sequence-based features along with features derived from a pre-trained transformer-based protein language model. *Link to initial version of the manuscript:* bioRxiv

DeepBCTPred: Deep Learning-Based Prediction of Bladder Cancer Tissues from Endoscopic Images *(Under review)*
In this study, we designed a pipeline to generate new images and a novel genetic algorithm to effectively select images from them. Additionally, we combined handcrafted features with learned features.

Predicting Protein-Carbohydrate Binding Sites: A Deep Learning Approach Integrating Protein Language Model Embeddings and Structural Features *(Manuscript in preparation)*
In this study, we created a novel deep learning architecture that integrates various dataset imbalance approaches with structural features.

Awards and Honors

BUET RISE Grant *RISE Student Research Grant [No. S2024-01-004]*

(Grant receive)

HONORABLE MENTIONS *MicroProcessor and MicroController project*

Projects

OnCampus

Github link: Backend Frontend
Frontend: Framework: Next.js, Styling: Tailwind CSS, Component Library: Material Tailwind, Text Box: jodit-react, PDF Viewer: react-pdf, 360° Virtual Tour: react-photo-sphere-viewer, Language: TypeScript.
Backend: Framework: Node.js, Express, Architecture: Microservice Architecture, ORM: Prisma ORM, Security: Helmet, JWT, Authentication: Keycloak, NextAuth.js.
Database: PostgreSQL hosted on Supabase, File Storage: Edgestore, Google Calendar Integration: Google Cloud API.
Deployment: MS Azure Virtual Machines, Supabase, Docker (for Keycloak), SSL Certificate from Namecheap, API Documentation with Postman.

MooMarket

Github link: Backend & Frontend

Tech Stack: JavaScript (Node.js, Vanilla JS), Express, HTML, EJS, PostgreSQL, Git, GitHub, npm, Render.

AniMatrix

Github link: Backend & Frontend

Tech Stack: JavaScript (Node.js, Vanilla JS), Express, HTML, EJS, Oracle DB, Git, GitHub, npm.

Certificates

Perfect Attendance Certificate *Issued May 2020*

Notre Dame College Dhaka

Certificate in National Skill Standard Basic Course Examination, 2015 *Issued Sep 2015*

BANGLADESH TECHNICAL EDUCATION BOARD

Interests

- Watching movies
- Reading novels
- Listening to music