

# Nafis Hossain Momen

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## EDUCATION

### BRAC University

Bachelor of Science in Computer Science and Engineering

Dhaka, Bangladesh

Exp. Graduation: 2026

### Rajshahi Govt. City College

Higher Secondary Certificate (HSC) in Science | **GPA: 5.00**

Rajshahi, Bangladesh

2021

### Rajshahi Cantonment Public School and College

Secondary School Certificate (SSC) in Science | **GPA: 5.00**

Dhaka, Bangladesh

2019

## TECHNICAL SKILLS

**AI & Data Science:** TensorFlow, Random Forest, ANN, Scikit-learn, Python, Pandas

**Full Stack:** React.js, Next.js, Node.js, Tailwind CSS, JavaScript, HTML/CSS

**Backend & Database:** SQL, MongoDB, REST APIs, Authentication, System Architecture

**Tools & DevOps:** Git, Docker, VS Code, Jupyter Notebooks, Cloud Deployment

## EXPERIENCE

### BRAC University

Undergraduate Researcher

Dhaka, Bangladesh

Present

- Conducting advanced research in Machine Learning and Data Science.
- Focusing on biological data analysis and neural network architectures for protein detection.

### Freelance / Self-Initiated

Full Stack AI Developer

Remote

2023 – Present

- Developing integrated AI solutions for healthcare, including the Smart Prescription System.
- Utilizing historical data for predictive medical assistance and intelligent automation.

### Tech Vision Ltd.

Software Development Intern

Dhaka, Bangladesh

Jun 2024 – Aug 2024

- Assisted in developing Python-based automation scripts that reduced manual data entry tasks by 40%.
- Collaborated with a 5-member team to design a student information management system.

## PROJECTS

### Mice Protein Expression Analysis | Random Forest, ANN, TensorFlow

2024

- Built a high-performance classification system analyzing protein expression levels in mice cortex.
- Achieved **100% accuracy** using Random Forest and **98.6%** with Artificial Neural Networks (ANN).
- Identified classes like c-CS-m and t-SC-s based on key proteins such as SOD1\_N and APP\_N.

### Smart Rx System | AI/ML, Web App, Healthcare

2024

- Developed an intelligent prescription writing platform for doctors.
- Implemented AI that learns from historical prescription data to suggest medicines based on disease patterns.
- Streamlined the healthcare workflow with predictive modeling and real-time suggestions.

### Murmur Detection | Python, Machine Learning

2024

- Built a classification system for heart sound signals using Python and machine learning libraries.

## LEADERSHIP & ACHIEVEMENTS

**Team Lead:** Led a team of 4 students to develop a Machine Learning model for predicting heart disease.

**Award:** Awarded Best Team Leader in BRACU Project Showcase (Spring 2024).

**Management:** Managed technical aspects of online events for BRACU Computer Club.