

Md. Tanvir Mahtab

IT SOFTWARE ENGINEER · TEACHER

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“Be the change that you want to see in the world.”

Research Interests

Machine Learning Applications, Artificial Intelligence, Medical Imaging, Healthcare Informatics, Neural Networks, Deep Learning, Multi-Criteria Decision Making (MCDM) and Image Processing, XAI,

Work Experience

DHAKA BANK PLC.

Dhaka, Bangladesh

TRAINEE OFFICER, IT

Oct 2023 – Present

- Design and consume REST/SOAP APIs to integrate into various banking systems using .NET(C#), Django, SQL and Oracle.
- Consulting with vendors to review and validate banking system programs, ensuring seamless integration.
- Implemented several API microservices in .Net for banking services.
- General Banking operations, maintain various banking software, servers and specialize in troubleshooting and enhancements for seamless integration.

GSL Education

Dhaka, Bangladesh & Leicester, UK

CANDIDATE RESOURCE OFFICER

April 2023 – Oct 2023

- Conduct recruitment, advertising, and candidate sourcing activities through prominent UK job portals, including CV Library, REED, and Indeed.,
- Thoroughly authenticate and verify compliance documents across various business areas, while also performing data entry tasks on Salesforce and Access Recruitment CRM.
- Effectively communicate with and target prospective clients and candidates through email or direct phone calls, primarily for registration, document tracking, and verification purposes.

Lira Group

Dhaka, Bangladesh

IT EXECUTIVE

June 2022 – March 2023

- Writing and updating documentation for IT processes, procedures, and user guides.
- Assisting in the development and implementation of IT policies and procedures.
- Conducting training sessions for staff on IT-related topics.
- Managing day-to-day IT operations and ensuring the smooth functioning of computer systems.

BRAC University

Dhaka, Bangladesh

CONTRACTUAL LECTURER, DEPT. OF COMPUTER SCIENCE AND ENGINEERING

Jan 2020 – May 2022

- Taking classes, assigning homework, giving feedback, evaluating exam scripts and assisting them with research.
- **Courses taught:**
Introduction to Computer Science, Programming Language I, Programming Language II, Data Structures, Operating Systems, Numerical Methods, Computer Interfacing, Introduction to Robotics, System Analysis and Design, Mobile Application.

Education

BRAC University

Dhaka, Bangladesh

M.Sc. IN COMPUTER SCIENCE AND ENGINEERING

June 2019 – Present

CGPA: 3.86/4.00.

BRAC University

Dhaka, Bangladesh

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING

Jan 2016 – Dec 2019

Thesis: Detection of Skin Cancers using Deep Neural Networks

CGPA: 3.86/4.00.

Academia School

Dhaka, Bangladesh

A LEVELS

2013–2015

1A*, 1A, 1B

CGPA: 3.67/4.00.

Publications

Detection of Skin Cancers using Deep Neural Networks

Australia

BACHELORS THESIS

2020

DOI:10.1109/CSDE48274.2019.9162400

Bangla Sign Language Recognition and Sentence Building Using Deep Learning

Australia

2020

DOI:10.1109/CSDE50874.2020.9411523

Efficient Portfolio Management using TOPSIS and Ada-Boost

Australia

2020

DOI:10.1109/CSDE50874.2020.9411530

Transfer Learning Approach and Analysis for Skin Cancer Detection

ICSCT, Bangladesh

2021

Published in IEEE International Conference on Science & Contemporary Technologies (ICSCT) 2021.

Projects

Service Portal

DhakaBank PLC.

SOFTWARE PROJECT

Jan 2024

Developed a service portal with .NET Core for comprehensive banking services and leveraged Bootstrap on the front end. Implemented ERin services, integrated NID services from the Election Commission for customer data retrieval in ERin web services, and executed role-based Jwt authentication.

ApiDbI Services

DhakaBank PLC.

SOFTWARE PROJECT

Nov 2023

Designed a consolidated banking API by integrating various banking APIs. Implemented Role based JWT authentication and incorporated diverse web services, enhancing banking functionality. Utilized .NET framework with C#, SQL, Microsoft Management Studio, and Oracle.

Breast Cancer Prediction using LIME

Institutional Project, BRAC University

SOFTWARE PROJECT

Jan 2021

Implemented CNN model and XAI, LIME, on breast cancer images, CBIS-DDSM: Breast Cancer Image Dataset

Smart Regulatory System

BRAC University

HARDWARE/SOFTWARE PROJECT

Dec 2019

A realtime automated system to keep track of attendance of all employees during office hours using RFID cards and a dashboard Webpage made using Javascript.

Skills

DevOps

Docker

Back-end

Django, .Net Core

Machine Learning

Models: Supervised Learning Models, Deep Learning Models, NLP, Transformers, LLM,
Framewroks: Scikit-Learn, TensorFlow, PyTorch

Programming Languages

Python, JAVA, C#, SQL, LaTeX

Languages

Bangla, English, French, Hindi

Honors & Awards

2017-2019 **BRAC Performance Scholarship, 75%**, BRAC University

Dhaka, Bangladesh

2017 **Finalist**, Tech for Peace Hackathon 2017, Preneur Labs

Dhaka, Bangladesh

2015 **Academia High Achievers Award**, For excellent result in Edexcel A levels

Dhaka, Bangladesh

Certificates

Prevention of Money Laundering & Combating Financing of Terrorism

AML & CFT DIVISION, HEAD OFFICE, DHAKA BANK PLC.

Dhaka, Bangladesh

Dec 2023

Top-up IT Training

ANDROID

Conducted by Ernst & Young LLP, ICT Division of Bangladesh under NASSCOM IT-ITES Sector Skill Council

Certified by **George Washington University, USA**

Dhaka, Bangladesh

March 2018

References

Dr. Md. Golam Rabiul Alam, Professor, rabiul.alam@bracu.ac.bd,

Level: 4

Kha-224 Merul Badda

Dhaka 1212. Bangladesh

Ext. 1910

BRAC University

Dr. Md. Ashraful Alam, PhD, Associate Professor, ashraful.alam@bracu.ac.bd,

Level: 4

Kha-224 Merul Badda

Dhaka 1212. Bangladesh

Ext. 1918

BRAC University