

# Mohammad Sabbir Musfique

Software Developer, AI/ML Enthusiast  
CSE, MIST

Email: [sabbir.musfique01@gmail.com](mailto:sabbir.musfique01@gmail.com)

Github: [sabbir-063](https://github.com/sabbir-063)

LinkedIn: [msmusique063](https://www.linkedin.com/in/msmusique063)

Contact Number: +880 1884952804

## EDUCATION

### Military Institute of Science and Technology

Apr 2021 – July 2025

Bachelor of Science in Computer Science and Engineering. CGPA: 3.31/4.00

## EXPERIENCE

### Competitive Programming Mentor

Apr 2022 – Mar 2023

MIST Computer Club

- Mentored students in C and C++ programming, focusing on problem-solving and algorithmic thinking.

### Industrial Trainee

Feb 2024 – Mar 2024

Desco ICT Division

- Gained exposure to software development, automation technologies, and utility management systems.

## PROJECTS

### NextBlog - A Blogging Website (Ongoing)

[Live Link](#) | [Client Code](#) | [Server Code](#)

React, Node, Express, MongoDB, Tailwind, Vercel, Render

- Built a blogging platform enabling users to register, create and manage posts, and maintain profiles.
- Integrated secure authentication, protected routes, rich-text editing, image uploads, and error handling.

### Bikreta - A Friend of Growth

[Live Link](#) | [Client Code](#) | [Server Code](#)

React, Node, Express, MongoDB, Cloudinary, Netlify, Render

- Built a e-commerce platform that empowers small business owners to purchase products in bulk.
- Included admin dashboards to analyze sales trends using basic data visualizations.

### Cold Email Generator

[Live Link](#) | [Full Code](#)

Streamlit, LangChain, Google Gemini AI, Faiss

- Developed a Cold Email Generator app that scrapes job postings and generates personalized emails using Google Gemini AI and LangChain.
- Integrated FAISS and Sentence Transformers to match job requirements with portfolio items.

### Bangla Sign Recognition using Hand Gestures

[Full Code](#)

Tensorflow, Keras, GridSearchCV, Sk-learn, OpenCV

- Trained and optimized multiple ML and DL models on augmented BdSL datasets using GridSearchCV, and integrated the best model into a real-time sign detection system with OpenCV and MediaPipe.

### OneConnect App - Android-based Donation Platform

[Demo Video](#) | [Full Code](#)

Flutter, Firebase, Firestore, Getx

- Developed a donation app enabling users to contribute to verified individual posts, a central fund.
- Implemented role-based access control for admins to manage users and see donation data through graphs.

### TransitPro - A Combined Bus Management System

[Demo Video](#) | [Full Code](#)

Laravel, Oracle, Xampp

- Developed a bus management system with role-based access for admins and staff, supporting multi agency operations, trip scheduling, ticketing, trip history tracking, and maintenance request handling.

## ACHIEVEMENTS

Pupil in Codeforces (Max Rating : 1388, Username: [sabbir\\_063](#))

July 2024

2 star in CodeChef (Max Rating : 1573, Username: [sabbirmusfique](#))

May 2024

7<sup>th</sup> place in Independent Day Programming Contest 2023

Apr 2023

## SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, PHP, Dart

Development Stack: MERN, Flutter

Databases: MongoDB, PostgreSQL, Firebase, MySQL, Faiss

Machine Learning: Model Development, Sk-learn, Tensorflow, Keras, NLP, OpenCV, Langchain

Relevant Coursework: DSA, OOP, DBMS, OS, Software Engineering

Spoken Languages: Bangla (Native), English (Professional)

## PROGRAMMING CONTESTS

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### UU Inter University Programming Contest 2025

*Team: MIST\_hotasha*

**Jun 2025**

Position: 72th

### DUET Inter University Programming Contest 2025

*Team: MIST\_EaglesEye*

**May 2025**

Position: 65th

### Independent Day Programming Contest 2023

*Team: MIST\_Troubleshooters*

**Apr 2023**

Position: 7th

### SEC Inter University Junior Programming Contest 2022

*Team: MIST\_UpsideDown*

**Aug 2022**

Position: 51th

## CERTIFICATIONS

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Problem Solving (Intermediate) Certificate - HackerRank | [Certificate](#)

Jan 2025

Intermediate Git Certificate - Datacamp | [Certificate](#)

May 2025

SQL (Intermediate) Certificate - HackerRank | [Certificate](#)

Apr 2025

Supervised Learning with scikit-learn - Datacamp | [Certificate](#)

Dec 2024

Introduction to Natural Language Processing in Python - Datacamp | [Certificate](#)

Dec 2024

Full Stack Development with MERN - Grameenphone Academy | [Certificate](#)

July 2025