

Saiful Islam Oni

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Introduction

I am Saiful Islam Oni, a final-year CSE student at AIUB with strong interests in AI and Machine Learning. Experienced in building real-world applications, including AI-enabled systems, desktop solutions, and responsive web platforms. With a background in software engineering and applied ML research, I have published two peer-reviewed conference papers. I enjoy solving practical problems, developing intelligent systems, and continuously learning new technologies.

Education

American International University Bangladesh

Sept 2022 – Current

BS in Computer Science and Engineering

- GPA 3.97/4.00

- **Coursework:** ML, CVPR, NLP, OOP with Java, OOP with C#, Web Technologies, Operating System.

BAF Shaheen College Dhaka

Jun 2019 – Dec 2021

Higher Secondary Certificate

- GPA 5.00/5.00

Adamjee Cantonment Public School

Jan 2017 - Feb 2019

Secondary School Certificate

- GPA 5.00/5.00

Publications

Detection and Classification of Diabetic Retinopathy Using Efficient-NetB0: A Lightweight Model With Transfer Learning Approach

Accepted Oct 2025

Saiful Islam Oni, Meheraj Hasan, Arpon Paul Amit, Shahnaj Parvin, Farzana Bente Alam, Kamruddin Nur.

[doi.org/#](#) [🔗](#)

Enhancing Predictive Maintenance in Smart Textile Manufacturing Using Machine Learning Models

Accepted Oct 2025

Md. Ibtihazzaman, Zuhaer Al Sadat, Sadman Sakib, *Saiful Islam Oni*, Mahfuza Khatun.

[doi.org/#](#) [🔗](#)

Projects

EkSeat.com- A Ride Sharing WebApp.

[github.com/EkSeat.com](#) [🔗](#)

- Developed a web-based ride-sharing application where a user can book their rides with cars, bikes, and other vehicles. Along with it, he/she can book a single seat on a car for his/her suitable journey.
- Tools Used: HTML, CSS, JavaScript, PHP

Emotion sentiment Analysis from text

[github.com/Sentiment](#) [🔗](#)

- This was our in-course project. Here we have trained a multinomial Naive Bayes model where a text is classified into 6 classes: anger, fear, joy, love, sadness, and surprise. Here, we have used the "Emotion Dataset for Emotion Recognition Tasks" from Kaggle. And our model has achieved 69.45% accuracy.
- Library Used in Python: pandas, matplotlib, sklearn.

BERT and BioBERT Implementation

[github.com/BERT](#) [🔗](#)

- This was my project for the NLP course. Here, we have implemented the Question Answering Task by BERT and BioBERT. For this project, I have used the SQUAD dataset for the BERT model and the BioASQ dataset for the BioBERT model. The BERT models got an Exact Match score of 75% and an

F1-score of 78% with the SQUAD dataset. But the BioBERT mode has scored 81% in Exact Match and 85% in F1-score with the BioASQ dataset.

- Library Used in Python: pandas, transformers, datasets, evaluate.

The-peak-Hour-of-Dhaka-Metrorail

github.com/MetroRail 

- This was my project for the Computer Graphics course. Here, we have designed the peak hour of the Dhaka Metrорail. This project has been done using some simple geometrical shapes, which are supported by OpenGL.
- Library Used in C++: Glut.

Skills

Programming Languages: C, C++, Java, C#, Python, JavaScript, PHP

Frameworks: Java Swing, .Net

Libraries: Numpy, Pandas, Matplotlib, Scikit Learn, Transformers

Web Technologies: HTML, CSS, JavaScript, PHP

Database: SQL, MySQL

Office Work: Microsoft Word, Excel, PowerPoint

Simulation Tools: Multisim, MATLAB, AutoCAD

Design & Writing Tools: OverLeaf, Canva, Adobe Photoshop, Adobe Illustrator

Languages

- Bangla (Native)
- English (Conversational)