Saiful Islam Oni

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Highlights

- Final-year Computer Science student at AIUB with a strong focus on Artificial Intelligence and Machine Learning.
- Experience developing real-world AI-enabled applications, desktop software, and responsive web platforms.
- Published author with two peer-reviewed conference papers in the AI/ML domains.
- Passionate about continuous learning, experimenting with new technologies, and building impactful solutions.

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/#](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/#](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 Metrorail. This project has been done using some simple geometrical shapes, which are supported by OpenGL.
- Library Used in C++: Glut.

Face Recognition door lock system

github.com/faceRecognition ↗

- This was my project for the Digital Logic and Circuits course. Here, we have made a face-recognition-based

door lock system using ESP32 Cam and a solenoid lock.
- ○ Components Used: ESP32 cam, solenoid lock.
- ○ 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, YOLO

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

Experience

General Member and Researcher *AIUB Research and Development Club*   *Jun 2025 – present*
- ○ Conducting a research paper combining computer vision and explainable AI in medical imaging.

Join Secratery *BAF Shaheen College Dhaka Mathematics Club*   *Dec 2020 – Mar 2022*
- ○ Successfully organized various events like MathPierates, Mathematical Content writing and Graphic Design competition.
- ○ Served as a Graphics Designer and social media manager for the 1st half of my clubbing timeline.

Vice President *Adamjee Cantonment Public School IT club*   *Jun 2017 – Mar 2019*
- ○ Organized one of the biggest events at our school named "Index Presents 1st ACPS IT Carnival 2017. "

Private Tutor (Home Tutoring) *Self employed*   *Jun 2021 – Dec 2023*
- ○ Taught mathematics, physics, Chemistry, and ICT to the SSC candidates.
- ○ Also taught English Medium students of Primery Level.

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

Languages

- ○ Bangla (Native)
- ○ English (Conversational)