

# Asfar Hossain Sitab



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## OBJECTIVE

BSc Computer Science & Engineering graduate from East West University with solid skills in AI/ML, data analysis, computer vision, and web development. I enjoy working with data — collecting, processing, and turning it into useful insights or intelligent systems. I am eager to join a dynamic company where I can contribute my technical knowledge, work with a skilled team, and help build meaningful solutions. I am hardworking, quick to learn, and ready to take on real responsibilities from day one.

## EDUCATION

**East West University** *Dhaka, Bangladesh*  
*BSc in Computer Science & Engineering* Oct 2022 – May 2026 CGPA: **3.71 / 4.00**

**St. Gregory High School and College** *Dhaka*  
*HSC — Science Group* 2019 – 2020 GPA: **5.00 / 5.00**

**Trust School** *Dhaka*  
*SSC — Science Group* 2016 – 2018 GPA: **5.00 / 5.00**

## TECHNICAL SKILLS

**Languages** Python JavaScript (ES6+) Java PHP 8 SQL HTML/CSS

**AI / ML** PyTorch TensorFlow Scikit-learn CatBoost LightGBM OpenCV YOLOv8/11/12

**Explainability** SHAP LIME Ablation Studies CodeCarbon

**Web & Backend** Node.js React RESTful APIs MongoDB MySQL

**Tools & Platforms** GitHub Google Colab Kaggle VS Code Docker

## FEATURED PROJECTS

**DeepCarDamage — Automated Vehicle Damage Assessment System** *2024–2025*  
YOLOv8/11/12-Seg · MobileNetV2 · CNN · CarDD Dataset

- An AI-powered system that automatically detects vehicle damage from images and classifies its severity, designed to speed up and automate the insurance claims process.

**QuickBite — Full-Stack Food Ordering & Delivery Platform** *2024*  
PHP 8 · JavaScript ES6+ · MySQL · Docker · Apache

- A complete web-based food delivery platform that connects customers, restaurants, and delivery staff, featuring real-time order tracking and end-to-end logistics management.

**EWU\_CLUB\_HUB — University Club Management Platform** *2023–2024*  
HTML5 · CSS3 · Node.js · MongoDB · RESTful APIs

- A centralised web platform for managing university clubs, where students can browse clubs, register for events, and admins can handle memberships and announcements across 30+ clubs.

## RESEARCH & ADVANCED DEVELOPMENT

**ClimaDecideRisk — Interpretable ML for South Asian Agriculture** *Under Review*  
CatBoost · SHAP · NASA POWER · MODIS NDVI

- Used 5,850 weekly remote-sensing records from 8 districts to build crop risk prediction models; CatBoost reached  $R^2 = 0.988$  (FVI) and  $R^2 = 0.975$  (PRPI).

## TropiLite-IE — Lightweight AI for Smart Building Energy Prediction

Python · GRU · LightGBM · SHAP · CodeCarbon

*Under Review*

- Combining a GRU neural network with LightGBM and physics-based features to predict building energy use; tracking carbon cost of AI inference using CodeCarbon.

## Anomaly-Based Deep Learning for Zero-Day Cyber Attack Detection






PyTorch · Network Security · Anomaly Detection

*Under Review*

- Building an unsupervised model to detect new types of network attacks without needing labelled attack data.

## SCHOLARSHIPS & ACHIEVEMENTS

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	Dean's Scholarship	East West University, 4th Year (2025–2026)
	Trustees Scholarship	East West University (2022–2026)
	Merit Medal (Medha Lalon)	East West University (2022, 2023, 2024, 2025)
	Chess — 1st Place	Inter-college competition
	National Debater	Debates aired on Bangladesh Television (BTV)

## LANGUAGES

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**Bangla** — Native | **English** — Professional Proficiency (C1)

## HOBBIES & INTERESTS

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Chess | Debating | Reading

## REFERENCES

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**1. Dr. Mohammad Manzurul Islam**  
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