

Mridul Kanti Kundu

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CAREER OBJECTIVES

“Focused on using skills in **Data Science**, **Machine Learning**, **Computer Vision**, **Data Mining**, and **Software Engineering** to turn complex data into useful insights and smart solutions. Aiming to build practical, **data-driven applications** that solve real problems with **strong thinking**, **problem-solving**, and **engineering skills**. Excited to work on **challenging projects**, **team up with creative people**, and keep learning to make a positive impact in data science and software development.”

EDUCATIONAL BACKGROUND

Bachelor of Science In Computer Science And Engineering

January 2022 – December 2025

American International University-Bangladesh (AIUB)

CGPA 3.63 (Out Of 4.00)

Higher Secondary Certification

2017 - 2019

Joypurhat Govt. College, Joypurhat

CGPA 4.83 (Out Of 5.00)

Secondary School Certification

2017

Ramdeo Bazla Govt. High School, Joypurhat

CGPA 5.00 (Out Of 5.00)

PERSONAL STATEMENT

“I am a highly motivated and detail-oriented **Computer Science and Engineering** student at **AIUB** with a strong foundation in **Data Science**, **Machine Learning**, **Computer Vision**, **Data Mining**, and **Software Engineering**. My academic journey and project experiences have allowed me to develop strong **analytical skills**, **data-driven** problem-solving abilities, and hands-on expertise in working with complex datasets and scalable software systems. I am deeply passionate about transforming raw data into meaningful insights and building innovative solutions that address **real-world challenges**. With a commitment to continuous learning and adaptability, I strive to stay at the forefront of technological advancements while sharpening my technical and professional skills. I am eager to contribute my knowledge and creativity to **dynamic projects**, collaborate with like-minded professionals, and make a lasting impact in both data science and software engineering fields.”

SKILLS

- Programming Languages: C++, Java, C#, Python, JavaScript, PHP, R, SQL
- Web Development: HTML, CSS, JavaScript, PHP
- Database Management: SQL (MySQL, SQL Server)
- Software Development: Object-Oriented Programming (OOP)
- CMS: WordPress
- Machine Learning & Data Science: Supervised & Unsupervised Learning, Deep Learning, Data Visualization, Model Optimization

THESIS

“We proposed a Hybrid-Adaptive Vision Transformer that replaces early self-attention with sub-quadratic Hyena operators to capture global context efficiently and enable adaptive token pruning, achieving ~48% token reduction and up to 24.5% FLOPs savings while maintaining competitive accuracy on CIFAR-10 and ImageNet-100.”

PROJECTS

Food Management System (Java)

2022

Technologies:

- Java, MySQL/PostgreSQL, Java Swing/JavaFX, JDBC/Hibernate

- Secure Authentication (BCrypt/SHA), Payment Integration (PayPal/Stripe)
- Admin Panel – Manage food, orders, customers
- Customer Reviews – View & analyze feedback
- Secure Login – Authentication & password management
- Payments – Seamless transaction handling

Car Selling Management (C#)

2024

Technologies:

- C#, MySQL (Database), Secure Payment Integration (Card/Online Banking)
- Admin Panel – Manage cars, users, and transactions
- Car Categorization – New & used vehicle listings
- Secure Authentication – Login/logout, customer management

Mango Leaf Disease (Machine Learning)

2024

Technologies:

- Machine Learning, Classification & Diagnosis Algorithms
- Disease Detection – Applied ML models for accuracy
- Model Evaluation – Compared algorithms for best results

Traveling to Cox's Bazar (OpenGL)

2023

Technologies:

- OpenGL (GLUT), C++
- Interactive Simulation – Journey from Komlapur to Cox's Bazar
- User Controls – Mouse, keyboard, smooth animations

Helping Individuals Cope with Depression

2024

Focus Area:

- Psychological Study, Mental Well-being Strategies
- Research Paper – Explores interventions for mental health
- Effective Methods – Strategies to reduce depression levels

Job Junction (HTML, CSS, JavaScript, PHP)

2024

Technologies:

- Web Development (HTML, CSS, JavaScript, PHP), MySQL
- Freelance Platform – Browse and apply for jobs
- Client Portal – Post job listings & hire freelancers

Old Age Home Care (Android, Firebase, Agile Scrum)

2024

Technologies:

- Android Development, Firebase, UI/UX Design, Agile (Scrum)
- Comprehensive care management system with real-time health tracking
- Secure communication tools for staff and family members
- Automated scheduling and streamlined billing for enhanced efficiency
- Cross-platform usability and accessibility across devices

Face Recognition System (Deep Learning, Transfer Learning)

2024

Technologies:

- Python, Deep Learning, TensorFlow/Keras, OpenCV
- Implemented face recognition system using transfer learning with pre-trained models
- Achieved high accuracy in real-time face identification
- Optimized model performance for speed and scalability

EXTRA-CURRICULAR ACTIVITIES

- ❖ **General Member, AIUB Computer Club** – Engaged in coding contests, technical discussions, and knowledge-sharing activities, fostering teamwork and continuous learning.
- ❖ **Volunteer, CS Fest 2024 (AIUB)** – Contributed to organizing workshops, managing participants, and ensuring smooth event operations, strengthening leadership and coordination skills.

PROFESSIONAL INTERESTS

- Project Management
- Public Relations
- Teamwork

- Time Management
- Leadership & Critical Thinking
- Open-Source Contribution
- AI & Machine Learning

LANGUAGE PROFICIENCY

English (Fluent), Bangla (Fluent), Hindi (Basics)

CERTIFICATES

❖ IT Essentials – Cisco Networking Academy

Gained foundational knowledge in PC hardware, operating system installation, networking fundamentals, and cybersecurity principles.

❖ Fortinet Certified Associate in Cybersecurity (FCA)

Demonstrated foundational knowledge in cybersecurity principles, network security, and Fortinet solutions.

❖ Fortinet Certified Fundamentals in Cybersecurity (FCF)

Acquired foundational knowledge in cybersecurity concepts, network security, and Fortinet technologies.

REFERENCES

Dr. Debajyoti Karmaker

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