

Curriculum Vitae



RAKIBUL HASAN SHAKIL

Full Stack Machine Learning Engineer
Researcher
Data Analyst

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 Basundhara R/A, Dhaka, Bangladesh

Skills

Machine Learning

Deep Learning

C++

Java

C#

.NET Core

HTML & CSS

PHP

JavaScript

Python

TensorFlow

NLP

CAREER OBJECTIVE

Specialized in Data Analytics, Machine Learning, and Full-Stack Web Development. Experienced in transforming data into actionable insights, building intelligent systems, and developing scalable end-to-end applications. Passionate about teaching and mentoring, with a strong ability to explain complex technical concepts in a clear and practical manner. A disciplined learner and problem-solver with hands-on project experience across analytics, ML models, and modern web technologies.

EXPERIENCE

Research Associate

Smile Care Limited, Dhaka, Bangladesh

2025 – 2026

- Conducted applied research resulting in two journal manuscripts currently under review.
- Submitted manuscript titled *"A Comparative Analysis of Machine Learning, Deep Learning, and Explainable AI Models for Fraud Detection in Large-Scale Credit Card Transactions"*, focusing on performance, interpretability, and scalability.
- Submitted manuscript titled *"Fairness-Aware Evaluation and Mitigation of Demographic Bias in ECG Classification"*, addressing bias detection and mitigation in medical AI systems.
- Analyzed large-scale clinical and transactional datasets to extract actionable insights.
- Collaborated with cross-functional research teams to develop models, validate experimental results, and prepare journal submissions.

Student Assistant

Department of Computer Science, American International University-Bangladesh, Dhaka

2025 – 2026

- Assisted students with course registration issues, academic system navigation, and program-related inquiries.
- Provided guidance to students on course requirements, prerequisites, and academic planning.
- Supported faculty members with administrative and academic tasks related to course coordination.
- Assisted in managing course materials, student records, and technical documentation.
- Helped maintain smooth communication between students and faculty within the department.

PROJECTS

Doctor HUB

Java • Patient-doctor communication and appointment handling system

- Developed secure real-time chat module between patients and doctors.
- Implemented automated appointment booking & schedule management dashboard.
- Integrated doctor availability prediction based on previous appointments.

Hotel Management System

HTML, CSS, PHP, JavaScript • End-to-end booking management platform

- Created interactive reservation and billing interface with automated invoice generation.
- Developed admin dashboard for room availability, customer records & payment tracking.
- Improved UI/UX for faster navigation and smoother check-in/out workflows.

Dhaka Subway Reservation System

C# • Ticketing, scheduling & seat reservation

- Designed metro ticket-selling interface with dynamic pricing support.
- Implemented smart seat assignment algorithm preventing overbooking.
- Added printable digital ticket generation with QR verification.

Floor Cleaning Robot

ESP32 • Arduino IDE • Motor Drivers • Sensors

- Designed an autonomous floor-cleaning robot using ESP32.
- Integrated L298N drivers for brush & wheel control.
- Obstacle detection using IR and ultrasonic sensors.

IoT + ML Crop Recommendation

IoT Sensors • ML Models • Smart Agriculture

- Built ML model to predict suitable crops using environmental sensor data.
- Optimized features for improved model performance.
- Published research on AI-driven agricultural decision systems.

ACADEMIC QUALIFICATIONS

DEGREE	INSTITUTION	YEAR	RESULT
BSc in Computer Science & Engineering	American International University-Bangladesh (AIUB)	2026	CGPA:3.77
Higher Secondary Certificate	BAF Shaheen College, Chittagong	2021	GPA: 5.00
Secondary School Certificate	Railway Public High School	2019	GPA: 4.89

LANGUAGES

English (Fluent), Bangla (Native), Urdu, Hindi

INTERESTS

Problem Solving, AI in Education, Research, IoT & Embedded System, Travelling.

ONLINE PROFILES

 Portfolio Website: <https://rh-shakil.vercel.app/>

 GitHub: <https://github.com/rakibulhasanshakil>

 LinkedIn: <https://www.linkedin.com/in/rakibul-hasan-shakil/>

REFERENCES

Dr. Razuan Karim Associate professor, Department of Computer Science, American International University-Bangladesh	Email: rkarim@aiub.edu
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