SAMIM REZA

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EDUCATION

Green University of Bangladesh — Jan 2022 – Present
B.Sc. in Computer Science and Engineering (CGPA: 3.80/4.00)

Government Bangabandhu College — 2017 – 2019
Higher Secondary Certificate (GPA: 4.75/5.00)

S.M. Model Govt. High School — 2012 – 2017
Secondary School Certificate (GPA: 5.00/5.00)

EXPERIENCE

Robotics Engineer Intern — *RoboTech Valley* — Jul – Sept 2025
– Designing robotics modules using embedded systems and ROS for autonomous navigation

Teaching Assistant — *Green University of Bangladesh* — May – Aug 2025
– Conducting demo classes on C Programming and Data Structures & Evaluate exam scripts and prepare grade sheets

Programming Trainer — *Green University of Bangladesh* — Jan – Dec 2025
– Training students for competitive programming; conducted weekly sessions

Mentor — *University Mentorship Program* — Jun 2023 – Aug 2025
– Mentored first-year students in programming fundamentals and professional tools

RESEARCH Ongoing

– **Denoising Diffusion Probabilistic Models** – Integrating edge detection for enhanced image generation
– **Federated Learning** – Adaptive client selection algorithms for optimal convergence
– **Human-in-the-Loop ML** – Survey on HITL approaches in modern ML systems

TECHNICAL SKILLS

Languages:	C, C++, Python, Java, JavaScript, PHP
AI/ML:	PyTorch, TensorFlow, Scikit-learn, LangChain, VectorDB, RAG, LLM, Roboflow
Data Science:	Kaggle Competitions, Machine Learning, Data Analysis
Tools & Platforms:	ROS, Git, Docker, LaTeX, Linux, MySQL, Arduino, Raspberry Pi, Jetson, ESP32, Azure, PWA

OPEN SOURCE PROJECTS

Personal AI Assistant [Live] [Code]
– LLM-powered chatbot with RAG implementation

WeCare Medical Service App [Code]
– Offline-first PWA for rural healthcare with AI triage (FastAPI, Ollama/Qwen3-VL, PWA, MySQL)

Cirrhosis Outcome Prediction BAIC 2025
– Ensemble ML classifier (XGBoost, LightGBM, CatBoost); 55 engineered features, 14.5% accuracy gain

Mars Rover [Code]
– ROS-based autonomous navigation system

Animal Introductory System [Code]
– Java GUI application with MySQL database

Portal Extended [Code]
– Full-stack web portal (JavaScript/PHP/MySQL)

COMPETITIVE PROGRAMMING

– **Champion:** Intra Dept Programming Contest 2024
– **3x ICPC Regionalist:** 2022, 2023, 2024
– Around **1000** problems solved across online judges
– **Kaggle Competitor:** Active in ML competitions
– **Problem Setter:** Junior Programming Contests
– **Participated:** NCPC 2023, IUPC 2023/2024

ACHIEVEMENTS

– Vice Chancellor's and DEAN's Award for Academic Excellence
– Champion, Inter Dept Programming Contest 2024
– Secured **8th** position in BUBT Artificial Intelligence Conquest in Kaggle
– National IT Quiz Competition Medalist

REFERENCES

Prof. Dr. Md. Saiful Azad
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