

SAMIM REZA

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EDUCATION

Green University of Bangladesh B.Sc. in Computer Science and Engineering (CGPA: 3.80/4.00)	Jan 2022 – Present
Government Bangabandhu College Higher Secondary Certificate (GPA: 4.75/5.00)	2017 – 2019
S.M. Model Govt. High School Secondary School Certificate (GPA: 5.00/5.00)	2012 – 2017

EXPERIENCE

Robotics Engineer Intern — <i>RoboTech Valley</i>	Jul – Sept 2025
– Designing robotics modules using embedded systems and ROS for autonomous navigation	
Teaching Assistant — <i>Green University of Bangladesh</i>	May – Aug 2025
– Conducting demo classes on C Programming and Data Structures & Evaluate exam scripts and prepare grade sheets	
Programming Trainer — <i>Green University of Bangladesh</i>	Jan – Dec 2025
– Training students for competitive programming; conducted weekly sessions	
Mentor — <i>University Mentorship Program</i>	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]	Cirrhosis Outcome Prediction	BAIC 2025
– LLM-powered chatbot with RAG implementation		– Ensemble classifier (XGBoost, LightGBM, CatBoost)	
Bengali Poetry Generator	[Model] [Code]	Mars Rover	[Code]
– Fine-tuned Gemma 2 9B with LoRA & RAG for Bengali poetry generation		– ROS-based autonomous navigation system	
WeCare Medical Service App	[Code]	Animal Introductory System	[Code]
– Offline-first PWA for rural healthcare with AI triage (FastAPI, Ollama/Qwen3-VL, PWA, MySQL)		– 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

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