

Samiur Rashid Abir

Research Enthusiast

✉ abir3004@gmail.com

☎ 01787619796

📍 158/1, Numa Garden, China Building Road

🌐 LinkedIn

🏠 Google Scholar

Professional Experience

2024/04 – 2024/08	Internship
Dhaka, Bangladesh	Singer Bangladesh Limited

Education

2019 – 2023	B.Sc in Electrical & Electronic Engineering
Gazipur, Bangladesh	Islamic University of Technology ↗
2016 – 2018	Higher Secondary Certificate
Chittagong, Bangladesh	Faujdarhat Cadet College ↗

Interests

- Data Science
- Machine Learning
- Research methodologies

Industrial Training

2022/07	Ghorashal Power Plant Station
Narsingdi, Bangladesh	Industrial Trainee
2021/10	Bangladesh Power Management Institute
Dhaka, Bangladesh	Industrial Trainee

Publications

Attention-Based Models for Multivariate Time Series Forecasting: Multi-step Solar Irradiation Prediction [↗](#)
Heliyon, Elsevier

Machine Learning Assisted Decision Support System for Prediction of Prostrate Cancer [↗](#)
International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology, ECTI-CON

ROC Based Performance Evaluation of Machine Learning Classifiers for Multiclass Imbalanced Intrusion Detection Dataset [↗](#)
Recent Advances and Innovations in Engineering (ICRAIE)

A Machine Learning Based Investigative Analysis for Predicting the Critical Temperature of Superconductors [↗](#)
EAI Endorsed Transactions on AI and Robotics

Asteroid Family Classification with Machine Learning: Investigative Analysis of a Novel Two-Step Approach for Identifying Small Asteroid Families
Under Review

An IoT-Integrated Interactive Smart Energy Monitoring System for Residential Energy Management
Under Review

Accolades and Participations

2015	Duke of Edinburgh Program
	Bronze Standard

2022	Winner of 70% Scholarship <i>ISCEA PTAK PRIZE 2022 (A supply chain solution-based competition organized by ISCEA, Bangladesh)</i>
2022	Battle of Minds <i>Quarter Finalist-A start-up-based business idea competition organized by British American Tobacco, Bangladesh</i>
2022	Bangabandhu Inter-University Sports Championship <i>Captain, IUT volleyball Team</i>

Projects

2022	Autism Spectrum Disorder Classification Using LDA, QDA and ANN <i>Medical Electronics Lab project</i>
2022 – 2023	Single Phase Smart Meter and Energy Monitoring System <i>Undergraduate Capstone Project</i>
2021	Efficient Use of Renewable Energy Source in Electric Vehicle Using Bidirectional DC-DC Buck Boost Converter <i>Research Methodology Course Project</i>
2020	Snake and Ladder Game by means of Digital Logic Designing <i>Digital Logic Designing Course Project</i>
2019	Automated Traffic Management System <i>Using C programming Language</i>

Skills

Computer Literacy

Microsoft Office
G-suite compatibility

Creative Design

Canva
Illustrator

Programming Language

Matlab
Python
C

Simulation

Proteus, PSIM, Orcad (PSpice)

Academic Awards

General Scholarship

Ministry of Education, Intermediate and Secondary Education Boards, Bangladesh

Best Paper Award Certificate

8th International Conference on Recent Advances and Innovations in Engineering (ICRAIE 2023)