

MD. SHAMEEM AHAMMED

Trishal, Mymensingh, Bangladesh

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 [Website](#)

ACADEMIC CREDENTIALS

Bachelor of Science in Electrical and Electronic Engineering

Jatiya Kabi Kazi Nazrul Islam University (JKKNIU), Mymensingh-2224, Bangladesh

Jan 2019 – Feb 2025

CGPA 3.53 out of 4.00

Thesis title: ANN-Driven Feature Selection for Improved Heart Disease

Classification via Machine Learning and Web-based Application.

SKILLS

Hardware Skill

• Oscilloscope Analysis • Analog Circuit Design. • Signal Generator Operation • Network Analysis.

Software Skill

- Engineering tools AutoCAD, Anaconda, MATLAB, Proteus, LTSpice, Cisco Packet Tracer
- Statistics tools Microsoft Office, Google Workspace
- Operating Systems Windows, Linux, Ubuntu, Raspberry Pi

Programming Language

• Python • C • Java • MATLAB Programming Language • Arduino • LATEX

Core Competencies

• Problem Solver • Data Management • Quick Learner • Networking • Punctuality • Adaptability • Team Worker

RESEARCH EXPERIENCE

Publication

- **MD. Shameem Ahammed**, Md. Mahbubur Rahman, Sourav Sarker, Mobussir Nur Sium, Faria Ferdous, Fatema Tanbin Mim, Md. Shake Farid Uddin and Arit Sarker “Hypertuning Random Forest for Enhancing Cyber Security in Industrial Power Electronics”, 27th International Conference on Computer and Information Technology (ICCIT-2024) 20-22 December 2024, Cox’s Bazar, Bangladesh.
- Mritunjoy Sarker, Md. Mahbubur Rahman, **MD. Shameem Ahammed**, Sourav Sarker, Zinia Jahan, and Md. Shake Farid Uddin “ML Based Ammonia Converter Leakage Detector and Trip Predictor For Improving Safety”, International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), 07-08 December 2024, Faculty of Engineering, University of Rajshahi, Rajshahi-6205, Bangladesh.
- **MD. Shameem Ahammed**, Md. Mahbubur Rahman, Md. Borhan Uddin, Zinia Jahan, Md. Shake Farid Uddin and Sabnam Mushtari “Optimizing Logistic Regression Model for Heart Disease Prediction with Machine Learning”, 7th International Conference on Vocational Education and Electrical Engineering (ICVEE-2024), 30-31 October 2024, Malang, Indonesia.
<https://doi.org/10.1109/ICVEE63912.2024.10823688>

Notable Projects

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| Line Following Robot | <ul style="list-style-type: none">• Designed an algorithm and developed a robot capable of following a predefined path while dynamically determining the shortest route to its destination.• Arduino. |
| Remote Controlled Car | <ul style="list-style-type: none">• Designed an algorithm and developed a Bluetooth-controlled car, enabling precise wireless navigation and efficient remote operation, and successfully participated in a national competition.• Arduino. |
| Smart Eye Stick | <ul style="list-style-type: none">• Developed a Smart Eye Stick to assist visually impaired individuals with obstacle detection and navigation, successfully presented in a national competition. |

Home Automation	<ul style="list-style-type: none"> Developed a smart home automation system as part of my third-year final project, integrating IoT-based theft detection, temperature and humidity monitoring, gas leakage detection, remote-controlled lighting and pump operation, along with real-time water level monitoring for enhanced safety and efficiency. Additionally, built a mobile application to enable seamless remote control and monitoring.
Soccer Bot	<ul style="list-style-type: none"> Designed an algorithm and developed an Arduino-based RF remote-controlled soccer bot, engineered for precise movement and strategic gameplay, and successfully competed in a national competition. Arduino.
Human-Following Robot	<ul style="list-style-type: none"> Designed an algorithm and developed a Raspberry Pi-based human-following robot, capable of real-time tracking and precise movement. RaspberryPi, Python.
Underwater Transmission Line Fault	<ul style="list-style-type: none"> Designed an underwater transmission line fault using MATLAB simulations and developed a machine learning-based fault detection system for underwater transmission lines, enhancing reliability and efficiency. MATLAB, Python.

RESEARCH INTEREST

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| <ul style="list-style-type: none"> Machine Learning. Medical Science. Healthcare. | <ul style="list-style-type: none"> Industrial Power Electronics Cyber Security Robotics |
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PROFESSIONAL MEMBERSHIP AND AFFILIATION

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- General Secretary (2023-24), EEE Club – JKKNUI
 - Former Treasurer (2022-23), EEE Club – JKKNUI
 - Former ICT Master Trainer, Sheikh Rasel Digital Lab, ICT Division of Bangladesh.
 - Former DeFi Analyst, NGENI LAB, Kenya

TRAINING AND PPERSONAL DEVELOPMENTS

<ul style="list-style-type: none"> A Three-Month Long Workshop on the basics of Research Organized by Jatiya Kabi Kazi Nazrul Islam University Research Society, Bangladesh. 	Sep - Nov 2022
<ul style="list-style-type: none"> IoT Stage of Robotics Camp-2022. Organized by Roboment, Bangladesh 	Oct 2022
<ul style="list-style-type: none"> Robotics Programmer Stage of Robotics Camp-2022. Organized by Roboment, Bangladesh 	Aug 2022
<ul style="list-style-type: none"> Easier Stage of Robotics Camp-2022. Organized by Roboment, Bangladesh 	June 2022
<ul style="list-style-type: none"> Computer Fundamental, Microsoft Office Program & Basic Internet. Organized by Smart Information& Technology, Cumilla, Bangladesh 	Aug-Oct, 2021
<ul style="list-style-type: none"> Basic Arduino Programming. Organized by Think-ROBO, Bangladesh 	Oct 2020
<ul style="list-style-type: none"> Professional Outsourcing Training on Digital Marketing. Organized by Learning and Earning Development Project, ICT Division, Bangladesh 	Aug-Oct 2020

REFERENCES

Dr. Md. Mahbubur Rahman

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Dept. of Electrical and Electronic Engineering
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