RAZA SHAUD

Electrical Engineer | Kolkata, West Bengal, India

+91-7439505623 rshaudx3@gmail.com razashuad Portfolio razashuad

SUMMARY

Engineer with expertise in power systems, industrial maintenance, Python, ML and computer-vision projects.

EDUCATION

Ghani Khan Choudhury Institute of Engineering and Technology   Oct 2022 – June 2026
Bachelor of Technology in Electrical Engineering   *Malda, India*

PROJECT WORK

Solar-Powered Robotic Cable Monitoring System | Arduino, Solar PV, CNN, OpenCV
- *Developed a solar-powered mobile robot for cable insulation monitoring using camera sensors and a CNN model achieving 96.5% fault detection accuracy.*

Human vs AI Voice Classification System | Python, ML, RF Model Arduino, GSM, Sensors
- *Built a classifier to distinguish human vs AI-generated voice using MFCC features; achieved 89% accuracy.*

Face Recognition Attendance System | Python, OpenCV, Pandas
- Developed real-time facial recognition system that automated attendance logging and reduced manual work by 99%

Saline Monitoring and Alert System | Arduino, GSM, Sensors
- Built a real-time saline level monitoring system with buzzer alerts and automatic SMS notifications to medical staff.

WORK EXPERIENCE

Tech Solutions Inc.   May 2025 – July 2025
ML Intern   *Kolkata, India*
- Assisted in ML model testing, data preprocessing, and pipeline debugging for automation tasks.

Steel Authority of India Limited (SAIL)   Nov 2024 – Dec 2024
Internship Trainee   *Bokaro, India*
- Worked on motors, and control panels, gaining hands-on experience in industrial electrical maintenance.

Damodar Valley Corporation (DVC)   June 2024 – July 2024
Internship Trainee   *Mejia, India*
- Learned substation operation, protection systems, and industrial automation workflows.

SKILLS

Programming & Tools: Python, C, C++, SQL, Git, VS Code, Arduino, MATLAB, ETAP, ANSYS
ML & Data: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV, Model Evaluation, Power BI
Electrical / Controls: Substation operations, protection systems, motor/control panel maintenance, automation
Core: Image classification, signal processing, CNNs, dataset preprocessing, OOP, DSA

PUBLICATIONS

Characteristics Investigation of Dual Rotor Single Stator 6-Phase Single I-Shaped Magnetic Pole PMSM for Smart Electric Vehicles — IEEE GIEST 2024

Noise Filtration and Voice Discrimination: Case Studies, Results, and Discussions — Journal

AWARDS AND CERTIFICATES

100 Days of Code: The Complete Python Pro Bootcamp — Udemy

Best Paper Award – GIEST 2024 (IEEE Conference)