

Mohammad Aamir Imran

📍 India | 📞 +91 9128043221 | ✉ aamirimran247@gmail.com | 🔗 [LinkedIn](#)

Education

Tezpur University B.Tech in Electrical Engineering	Graduation year 2025 CGPA: 7.01
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Objective

Passionate and results-oriented person with a B.Tech in Electrical Engineering, specializing in **Industrial Automation**, AI, and Renewable Energy Systems. Experienced in **leading cross-functional teams**, optimizing energy solutions, and driving **innovation** to improve operational **efficiency**. Excited to apply **leadership** and **technical expertise** to impactful infrastructure projects.

Experience

Engineer Trainee June 2024 – July 2024

Power Grid Corporation of India (PGCIL), Assam

Contributed to the **±800 kV HVDC Multiterminal Project**, **optimizing grid stability and preventive maintenance**. Implemented MATLAB-based harmonic analysis, **improving operational efficiency and reliability**.

Fellow Analyst Jan 2024–Feb 2025

Marquee Investment Banking, WFH

- Collaborated with **5+ cleantech start-ups**, providing financial models and operational strategies for **sustainable energy projects**.
- Developed financial projections using advanced Excel techniques, **enhancing decision-making** capabilities.

Projects

PV Solar Cost Optimization using Grey Wolf Optimization (GWO) Aug 2024 – Nov 2024

Guided by Asst. Prof. Barnam Jyoti Saharia, Tezpur University

- Applied AI-based GWO to **reduce solar PV installation costs by 18%**, minimizing payback periods to 4.5 years.
- Led a 4-member team to benchmark GWO against conventional algorithms, **improving cost-effectiveness by 12%**.

Harmonic Distortion Analysis in HVDC Systems June 2024 – July 2024

Power Grid Corporation of India (PGCIL), Assam

- Analysed harmonic distortion in **±800 kV HVDC transmission lines**, **reducing power losses by 15%**.
- Implemented preventive **maintenance strategies**, enhancing transmission **efficiency**.
- Worked with cross-functional teams to align the project with **IEEE** compliance standards.

Dynamic Voltage Restorer (DVR) using Artificial Neural Networks (ANN) April 2024 – May 2024

Guided by Asst. Prof. Dr. Anish Ahmad, Tezpur University

- Designed and simulated a **DVR system using ANN to improve voltage stability** in high-voltage distribution networks.
- Enhanced system stability and reduced voltage sag** by integrating AI-driven predictive algorithms.

Skills

Renewable Energy Systems: Solar PV Design & Optimization, HVDC Transmission

Automation & Systems: SCADA Systems (Siemens WinCC), PLC Programming (Allen-Bradley, Siemens TIA Portal), Python (Automation & Machine Learning Basics)

Modelling & Simulation: MATLAB, AutoCAD

Programming: Python, MATLAB, PLC

Project & Team Management: Cross-functional team leadership, Strategic planning & Execution, Budgeting & resource allocation, Risk Assessment & compliance

Optimization Algorithms & AI Tech. : GWO Optimization for cost modelling, ANN for Voltage stabilization

Office Tools: MS Excel (Advanced Modelling), MS Word, MS Power-point

Leadership and Volunteering

Astronomy Club (Member) <i>Dec. 2022 – Oct. 2024</i>	National Service Scheme (Member) <i>Mar. 2022 - Jun. 2023</i>
<ul style="list-style-type: none">Led telescope sessions & observation nights (200+ students).Led cleanliness drives (150+ volunteers).Established mentoring program (50+ members).Organized public outreach, boosting astronomy interest among school students.	<ul style="list-style-type: none">Coordinated blood donation drive (100+ units collected).Supported education & community development.

Hobbies, Interests, and Achievements

Interests	Achievements & Certificates
<ul style="list-style-type: none">Astrophotography (Deep-sky objects)	In Top 10% in Coursera Python Course , Scored 98/100 (Nov 2021)
Hobbies	ONGC Merit Scholarship , Awarded for the academic excellence
<ul style="list-style-type: none">Cycling, Hiking (Fitness, Exploration)Cricket, Badminton (Team sports, Recreation)Stargazing, Night walks	

Languages

<ul style="list-style-type: none">English (Professional)	<ul style="list-style-type: none">Hindi (Native)	<ul style="list-style-type: none">Arabic (Basic)
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