

Khush Garg

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Electrical Engineer | Power Systems, Data Analysis & Automation

EDUCATION

Malaviya National Institute of Technology, Jaipur

Aug 2024 - Present
M.Tech. in Power Systems Management
CGPA: 7.86/10.00

Vardhmaan Mahaveer Open University, Kota

Jul 2021 - Jun 2023
M.Sc. in Mathematics
CGPA: 6.00

Rajasthan Technical University, Kota

Aug 2016 - Nov 2020
B.Tech. in Electrical Engineering
CGPA: 7.64

Board of Secondary Education Rajasthan, Ajmer

2016
Senior Secondary 86.60%

Board of Secondary Education Rajasthan, Ajmer

2014
Secondary 77.83%

SKILLS

- **Languages:** C, C++, Python, SQL
- **Software:** MATLAB, GAMS, PLEXOS, PSS®E, MS Office, Power BI

LANGUAGES

- **Native:** Hindi
- **Fluent:** English
- **Basic:** French

COURSES

- Rajasthan State Certificate in Information Technology (98%)
- Bootcamp on Android Fundamentals and App Development
- GATE Qualified (2024)

VOLUNTEERING

- National Service Scheme (NSS)
Jan 2015 - Jan 2016
- PIICON 2024
Dec 2024

PROFESSIONAL SUMMARY

Professional Power Management Researcher at MNIT Jaipur with experience in data-driven energy solutions, MATLAB/Python programming, and power system analysis. Known for a strong work ethic and problem-solving in renewable integration and smart grid technologies. Currently working on Cyber Security of Power System, Attack detection and prevention. Keen on continuous learning, especially in automation and emerging energy technologies. Interested in smart control, data analytics, and modern energy management to improve efficiency and sustainability.

EXPERIENCE

Indian Convent Sr Sec School

Teaching & Mentorship Keshoraipatan, India 2020 - 2024

- Delivered structured lessons in Mathematics, Science and Chemistry.
- Conducted Physics and Chemistry Lab Sessions, CBSE and RBSE Board Practical Examination.
- Gained web development experience by creating school website.
- Learn skills of Great Communication, Problem Solving, Critical Thinking, Organizational Management, Mentorship, and Leadership.

Ultra Tech Pvt Ltd

Electrical Engineering Trainee Rawan, Chattisgarh May 2019 - July 2019

- Acquired practical knowledge on the operations of thermal power plants, focusing on power generation cycles and energy efficiency.
- Gained hands-on experience with switchgear systems, protective relays, and load management practices.
- Developed a knowledge of electrical maintenance, safety protocols, and standard operating procedures at the plant level.
- Observed integration of automation and control systems within power distribution.

PROJECTS

HVDC Transmission and FACTS Devices

2019 - 2020

- Conducted a seminar and prepared a report on High Voltage Direct Current (HVDC) transmission systems and Flexible AC Transmission Systems (FACTS) devices.
- Explored the principles and applications of HVDC for efficient long-distance power transmission.
- Investigated the role of FACTS devices in improving the stability, controllability and power transfer capacity of the power system.
- Analyzed the operation of Voltage Source Converters (VSC) in FACTS devices, including their use in STATCOM and UPFC.

Thermal Power Plant Study

2019 - 2020

- Presented a comprehensive study of the operations of thermal power plants, including coal handling, water treatment, boiler systems, and power generation.
- Highlighted key components like turbines, condensers, and electrostatic precipitators.

COURSEWORK

- **Power Systems:** Power Flow Study, Power System Economics, Power Market and Regulations, Demand Side Management, Risk Management, Smart Grid, Machine Learning
- **Mathematics:** Advanced Algebra, Real Analysis and Topology, Integral Transform and Integral Equation, Differential Equations, Mechanics, Optimization Techniques

PORTFOLIO

- **Website:** <https://khush.engineer>

HOBBIES

- Reading Books
- Yoga
- Chess
- Learning new skills