Khush Garg

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Electrical Engineer | Power Systems Management & Energy Data Analyst

Professional Summary

Power Systems Management Researcher at MNIT Jaipur with experience in data-driven energy solutions, MATLAB/Python programming, and power system analysis. expertise in renewable integration and smart grid technologies, Power Market Regulations, RPO, PPA etc. Worked on Open Access, Cyber Security of Power System, Attack detection and prevention. Currently, Focusing on the production of Green Hydrogen in India.

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.

Education

M.Tech in Power Systems Management   *Aug 2024 – Current*
Malaviya National Institute of Technology Jaipur

- CGPA: 8.39
- **Coursework:** Power Flow Study, Power System Economics, Power Market and Regulations, Open Access, Demand Side Management, Smart Grid, Machine Learning, Demand Estimation, Risk Management

M.Sc in Mathematics   *July 2021 – June 2023*
Vardhmaan Mahaveer Open University Kota

- CGPA: 6.2
- **Coursework:** Advanced Algebra, Real Analysis and Topology, Integral Transform and Integral Equation, Differential Equations, Mechanics, Optimisation Techniques

B.Tech in Electrical Engineering   *Aug 2016 – Nov 2020*
Rajasthan Technical University Kota

- CGPA: 7.64

Senior Secondary   *2016*
Board of Secondary Education Rajasthan, Ajmer

- Percentage: 86.60 %

Secondary   *2014*
Board of Secondary Education Rajasthan, Ajmer

- Percentage: 77.83 % (100% in Mathematics)

Experience

Electrical Engineering Trainee   *Rawan, Chattisgarh*
Ultra Tech Pvt Ltd   *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.
- Promoted safety by upholding maintenance protocols and SOPs.
- Observed integration of automation and control systems within power distribution.

Teaching & Mentorship   *Keshoraipatan*
Indian Convent Sr Sec School   *2020 – 2024*

- Delivered structured lessons in Mathematics, Science and Chemistry.
- Conducted Physics and Chemistry Lab Sessions, CBSE and RBSE Board Practical Examination

Courses and Achievement

Rajasthan State Certificate in Information Technology (98%)   *2020*
Vardhmaan Mahaveer Open University, Kota

Bootcamp on Android Fundamentals and App Development *Feb 2025*

Department of CSE, MNIT Jaipur

- ○ Successfully completed a five-day Bootcamp, sponsored by Information Security Education and Awareness (ISEA) - Phase III.

GATE Qualified *2024*

Projects

Green Hydrogen Economics & LCOH Analysis *2024 - Present*

M.Tech Dissertation, MNIT Jaipur

- ○ Calculated Levelized Cost of Hydrogen (LCOH) considering Indian regulatory frameworks and renewable energy mix.
- ○ Modeled investment viability and economic pathways for sustainable Green Hydrogen infrastructure development.

MNIT Resale - Student Marketplace *2025*

Marketplace for New and Ideal Things within Campus | Website: https://mnitresale.shop

- ○ Developed and launched a free, no-mediator campus marketplace; benefited 1,500+ students to date.
- ○ Reduced waste and improved affordability through peer-to-peer reuse on campus.

HVDC Transmission and FACTS Devices *2019 - 2020*

B.Tech Seminar Project, Rajasthan Technical University, Kota

- ○ Analyzed HVDC principles for efficient long-distance transmission and FACTS devices for grid stability enhancement.
- ○ Investigated improvements in power transfer capacity and voltage controllability within transmission networks.

Thermal Power Plant Study *2019 - 2020*

B.Tech Project Presentation, Rajasthan Technical University, Kota

- ○ 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.

Skills

Languages: C, C++, Python, SQL, HTML, CSS, JavaScript

Software: MATLAB, **GAMS**, **PLEXOS**, PSS®E, MS Office (Word, Excel, Power Point), Power BI, LaTeX

Volunteering

National Service Scheme (NSS) *Jan 2015 - Jan 2016*

Volunteering in PIICON 2024 *Dec 2024*

Volunteering in SEFET 2025 *July 2025*

Languages

Hindi: Native proficiency

English: Fluent proficiency

French: Basic proficiency

Hobbies

Yoga, Chess, Badminton, Learning new skills

Personal Portfolio

Website: https://khush.engineer