

Aiman Imtiyaz

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Objective

An accomplished electrical engineering graduate, with a Master's degree specializing in Electrical Power and Energy Systems, complementing a Bachelor's degree. I bring a meticulous approach to problem-solving, coupled with proficiency in Python programming. I have applied my skills to develop and deploy wind power forecasting models, effectively mitigating deviation charges and uncertainty in energy systems. With a proactive approach to research, I have contributed to the academic discourse through a paper submitted to the esteemed ISSETA conference held at NIT Meghalaya. This demonstrates my dedication to advancing knowledge in the field and my commitment to staying at the forefront of industry developments. Seeking to harness my technical expertise and cybersecurity knowledge, I am eager to contribute to innovative projects and solutions within the realm of electrical engineering. By leveraging my diverse skill set, I aim to drive impactful change and contribute to the advancement of the industry.

Experience

- Institute of Technology Zakura Campus**
Lecturer
- Power Grid Corporation of India Ltd**
Internship Trainee
During my internship at the Power Grid Corporation, I gained valuable insight into substation equipment and the intricate workings of the power system network.
- KEC INTERNATIONAL**
Post Graduate Engineer Trainee

Education

- Jk Public School Humhama Budgam** 2013
Matriculation
9
- GGHS Amirakadal Srinagar Kashmir** 2015
Secondary School
8
- University of Kashmir** 2021
Bachelor's of Engineering (Electrical Engineering)
8.35
- National Institute Of Technology** 2023
Mtech (Electrical Power and Energy Systems)
8.8
- National Institute Of Electronics & Information Technology** 2023-2024
Cyber security Fundamentals and Practices

Skills

- Proficient in Python programming for data analysis, automation, and scripting, with experience in implementing algorithms and data structures. Strong understanding of electrical engineering principles, including power systems, circuit analysis, and control systems. Familiarity with cybersecurity concepts and best practices, including network security, encryption techniques, and vulnerability assessment
- Experience with software packages such as MATLAB, Simulink, and LabVIEW for modeling, simulation, and control system design. Knowledge of cybersecurity tools and platforms, including VM ware, Linux, and , Cisco for threat detection, penetration testing, and security assessment.

Projects

- **Wind power Forecasting with Deviation charges and uncertainty**

Wind energy, with a global capacity of 906 GW by 2022 and a growth rate of 21.50 percent, plays a crucial role in combating climate change. Technological advancements enhance its efficiency, reliability, and cost-effectiveness, making it globally recognized. Accurate forecasting is vital for stable grid integration, minimizing deviations and optimizing resource use. Ongoing modeling advancements, including methods like Non-parametric Kernel Density Estimation (NPKDE) and cloud model (CM), aim to enhance reliability for efficient wind farm power supply.

Publications

- **Comprehensive Review of Wind Power Forecasting: Techniques, Uncertainty Quantification, and Strategic Refinement of Reserve Procurement Strategies**

Wind energy, with a global capacity of 906 GW by 2022 and a growth rate of 21.50 percent, is crucial for addressing climate change. Despite variability, technological advancements improve efficiency. Accurate forecasting ensures stable grid integration, minimizing deviations and optimizing resource use. Ongoing modeling advancements enhance reliability, utilizing methods like Non-parametric Kernel Density Estimation (NPKDE) and cloud model (CM) for efficient wind farm power supply.

Reference

- **Prof. Aijaz Ahmad Zargar - Nit Srinagar**

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- **Dr.Kushal M Jagtap - Nit Srinagar**

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