Apurva Malpure

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SUMMARY

Industrial Engineering graduate student at the University of Illinois Urbana-Champaign with over six years of experience in clean energy practices, data analysis, process improvement, and technology evaluation. Passionate about enterprise systems and technology strategies. Strong interest in the power industry, with a basic understanding of Advanced Distribution Management Systems (ADMS), and Distributed Energy Resource Management Systems (DERMS) concepts, and a curiosity to learn more about them. Skilled in creating diagrams, reports, and presentations to effectively communicate technical concepts to different audiences.

EDUCATION

MS in Industrial Engineering | University of Illinois, Urbana-Champaign (GPA: 3.84/4)	*Aug 2024 - Dec 2025*
BE in Instrumentation Engineering | Government College of Engineering, Amravati	*Aug 2012 - May 2016*

SKILLS

Technical Proficiency: Python, Minitab, Microsoft Excel (VLOOKUP, Pivot Tables), SQL, Visio
Process Improvement & Optimization: FMEA, Root Cause Analysis, DMAIC, Kaizen, 5S, Value Stream Mapping (VSM), Statistical Process Contol (SPC), SAP ERP
Certifications: Lean Six Sigma Green Belt, Supply Chain Foundations

PROFESSIONAL EXPERIENCE

Assistant Engineer, MAHAgenco Ltd, Nashik   *July 2019 - July 2024*

- Directed process optimization & equipment life-cycle management, achieving a 16% boost in operational efficiency.
- Created diagrams, reports, and presentations to effectively communicate technical and process optimization strategies to various stakeholders
- Assisted in technology evaluations, data analysis, and supported decisions on grid stability and renewable energy integration.
- Collaborated with cross-functional teams on grid management initiatives to monitor and control system parameters to maintain stability and efficiency and develop strategic energy solutions.
- Implemented SAP ERP for inventory and production data management, optimizing workflows and reducing lead times by 12%.

Graduate Engineer Trainee, MAHAgenco Ltd, Nagpur   *July 2018 - July 2019*

- Acquired experience in diverse power generation environments, including renewable and non-renewable energy, facilitating the seamless integration of renewable sources into the grid and improving grid sustainability.
- Assisted in emerging technology research for renewable energy solutions, enhancing energy efficiency and reducing carbon footprint by 10%.
- Assisted in process control and optimization efforts, prioritizing energy efficiency and ensuring 100% compliance with environmental standards for renewable energy integration

ACADEMIC PROJECTS

Data Center Cooling Using Aquifer Thermal Energy Storage (ATES)

- Assisting with research, data analysis, and project development on energy efficiency from existing research to assess feasibility and reliability.
- Conducting a literature review on ATES integration for data center cooling to identify key methodologies and case studies
- Researched emerging technologies to inform decision-making and strategy development for energy-efficient cooling

Sensitivity Analysis of Production Process

- Developed and optimized a production plan using linear programming techniques and resource allocation model to maximize profitability under resource constraints.
- Conducted sensitivity analysis to evaluate resource capacity changes and their impact on production and profit.