



# Shivasheesh Singh

MS Research  
Sustainable Energy Engineering  
Indian Institute of Technology Kanpur

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GitHub  
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## EDUCATION

Degree	Institute	CGPA/Percentage
MS Research(SEE)	Indian Institute of Technology Kanpur	7.6*/10
B Tech (ME)	Lovely Professional University Jalandhar	70.29%
Senior Secondary	National Inter College Prayagraj	67.6%
Higher Secondary	National Inter College Prayagraj	62.5%

## PROFESSIONAL EXPERIENCE

- io digital llp** Apr(18) - Mar(20)  
*Associate* Delhi
  - Managed end-to-end gift delivery operations for **ferns n petals**, ensuring seamless execution from order placement to final delivery
  - Key Responsibilities:** Effectively managed complex **managerial escalations**, showcasing strong **negotiation skills** and maintaining business relationships. Successfully boosted firm **profitability** with a minimum profit margin of **50 percent**
  - Impact:** Spearheaded the strategic expansion of the team, facilitating a remarkable growth from **15 to 35** members, while maintaining operational efficiency and cohesiveness
  - Learning:** Team Management, CRM operations, Escalation Handling and client Negotiation

## RESEARCH EXPERIENCE

- Measuring the Energy Inequality in India ( M.S. Research Thesis)** Ongoing  
*Prof. Deepika Swami*
  - An analysis of more than **1 Million** data points and **6000+** **variables** for the accessibility of clean cooking fuel in Indian households
  - Successfully accessed the data set of **Demographic Health Survey** and categorized the required variables by using Pandas and NumPy
  - Separated the households with and without access of **clean cooking fuel** and visualization of the same was done by Matplotlib and Seaborn our future intent is to find out the **Gini coefficient** with the help of **Lorenz curve** and proposing the **best policy** for clean cooking fuel in India based on the rank of each state

## COURSE PROJECT

- Performance Analysis of Solar PV Modules: Operating Condition Variability and IV Curve Analysis** Jan(23)-May(23)  
*Introduction to Sustainable Energy Technologies (IIT Kanpur)*
  - Conducted comprehensive analysis of photovoltaic module **I-V** and **P-V** characteristics, assessing performance under diverse conditions such as **diode** presence, **shading**, **series/parallel** connections, and inclined setups
  - Calculated **module efficiency** across different conditions, **considering maximum power point tracking**, **fill factor**, and other critical parameters
- Fabrication and Testing of Li-ion Coin Cell** Jan(23)-May(23)  
*Introduction to Sustainable Energy Technologies (IIT Kanpur)*
  - Expertly fabricated, assembled, and characterized Li-ion coin cells, demonstrating adeptness in electrode preparation and testing for energy storage, including Electrochemical Impedance Spectroscopy (EIS) and charge-discharge measurements
  - Effectively supervised controlled environments using a **Glovebox**, utilizing precision tools like **Punching Machine**, Rolling Press Machine, and **Film Coater Machine** for precise and consistent processes
- Per Capita Energy Analysis: Gujarat vs. Kerala** Jan(23)-May(23)  
*Introduction to Sustainable Energy Policies (IIT Kanpur)*
  - Discovered significant electricity demand disparities despite similar GDP per capita in Gujarat and Kerala. Unveiled the **direct link** between **energy demand** and **economic activity**, highlighting Gujarat's economic dominance as a key driver of higher consumption. This insight contributes to informed regional energy policy considerations

## PROFESSIONAL SKILLS

CRM Operations, OMS control, Client Handling, Escalation Management, Team Training and Business development

## KEY COURSES TAKEN

- Introduction to Sustainable Energy Technologies, Introduction to Sustainable Energy Policy, Managerial Economics, Management Practice and Organizational Behavior**

## CERTIFICATIONS

- Business Intelligence using Power BI:** Skill Nation
- Complete Data Science Bootcamp:** Udemy
- Financial Modelling and Valuation:** Udemy
- Lithium Battery Technology for Electric Vehicle:** Udemy
- Electric Vehicle Battery Management System:** Udemy

## POSITIONS OF RESPONSIBILITY

- Student Guide:** Led a team of **20 student** and helped them thoroughly for their academic registration and mentoring them continuously on behalf of Institute Counseling Services(**PG Core team**), also successfully coordinated and **managed** a comprehensive orientation event for **1400+** incoming students
- Teaching Assistance:** As a Teaching Assistant, I actively engaged in outreach activities and coordinated informative sessions, captivating **lab visits**, and **eco-conscious quizzes** to **promote sustainability** and raise awareness among **diverse audiences**, including **school children**