Jai Shekhar

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EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Master of Science – Energy Science, Technology, and Policy *(GPA: 3.5/4.0)*   *December 2023*
Coursework: Energy Transportation and Storage, R Analytics, Climate Change Adaptation, Energy Finance, Management of Electrical Power Systems, Funding Early Stage Ventures, Quantitative Methods for Policy

Manipal Academy of Higher Education   **Manipal, India**
Bachelor of Technology – Chemical Engineering   *August 2021*
Academic Merit – Senior Year (*Top 3% in class*); Published 6 papers over 4 years.

WORK EXPERIENCE

Sesame Sustainability   **Boston, MA**
Energy Systems Engineer   *January 2024 – February 2024*
● Developed 2 interactive Excel models to map out total energy consumption and GHG emissions for green ammonia production across various production and transport pathways.
● Worked with a carbon sink development agency to understand its carbon purchase capabilities based on existing assets across California.

Energy Futures Initiative   **Washington, DC**
Research Fellow   *May 2023 – December 2023*
● Created a global hydrogen demand model to estimate hydrogen demand in 2050 using primary and secondary research data from 12+ nations with existing national hydrogen strategies.
● Used Excel and Tableau to create a 1500+ data point interactive time-series model that assists the government of Saudi Arabia in strategizing future hydrogen production as an aspiring global distributor of the resource.

Sattva Consulting   **New Delhi, India**
Analyst   *August 2021 – April 2022*
● Developed a 5-pillar governance strategy to improve grassroot decision-making and remuneration processes at district and village level health centers; estimated outcome includes refined operations and increased satisfaction for over 15,000 grassroot employees by at least 95%.
● Designed a command-and-control center for the Bihar health society in Patna to improve data sharing and digitalization across 7 newly connected health departments; secured buy-ins from the Bill and Melinda Gates Foundation, India head, and the state Chief minister.

Council on Energy Environment and Water   **New Delhi, India**
Consultant   *July 2020 – July 2021*
● Led a team of 5 members to identify the impact of climate change on wind energy through predictive Excel modeling. Published a first-of-its-kind report addressing the challenges in the Indian subcontinent.
● Undertook stakeholder engagement as project lead, completed PESTEL and SOAR analysis to identify 20+ technical, economic, regulatory, and political pain points in the Indian wind energy sector.

ADDITIONAL EXPERIENCE

Candela Energy   **New Delhi, India**
Co-founder and Product Manager   *February 2020 – August 2022*
● Managed the organization website, data-sharing interface on Asana and Trello; Optimized communication across teams and led business development initiatives with 10+ manufacturing and long-haul logistics firms.
● Oversaw project transition from research to prototype development as a change manager, developed broader financial models, doubled team size to 15, integrated developers and engineers, pitched at international forums, and investor gatherings, and raised over USD 10,000 in grants as lead proposal writer.

Research Assistant   **Pittsburgh, PA**
Wilton E. Scott Institute for Energy Innovation, Carnegie Mellon University   *Dec 2022 – December 2023*
● Co-organized the Carnegie Mellon Energy Week 2023. Worked with senior staff to develop 5+ sponsorship deals and coordinated invitations for 20+ guest speakers over 5 days.
● Completed an impact assessment of the institute's grant funds from 2013 – 2022 to create success metrics for future grant funding processes on campus.

SKILLS

Tools: Microsoft Office (Excel, Word, Powerpoint), Tableau, QGIS/ArcGIS, R, HOMER
Soft Skills: Leadership, Problem-Solving, Communication, Research, Analytical, Speaking