

Veena Shirsath

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EDUCATION

- MS in Economics and Computation, Duke University** May 2026
Durham, USA
- CGPA: 3.75/4.0
 - Relevant courses: Asset Pricing and Risk Management, Predictive Modelling, Machine Learning, Deep Learning, Theory and Algorithms of Machine Learning, Econometrics, Advanced Microeconomic Analysis, ESG Investing
- BA (Hons) Economics, Ahmedabad University** May 2024
Ahmedabad, India
- CGPA: 3.78/4
 - Relevant courses: Energy and Climate Change, Environmental and Resource Economics, Data Science, Time Series Econometrics, Mathematical Statistics, Intermediate Microeconomics, Cities and Transport

SKILLS & CERTIFICATIONS

- **Programming & software:** Python (Torch, Tensorflow, PyPSA), R, STATA, QGIS, MS Excel, Tableau
- **Skills:** Data Analytics, Machine Learning, Deep Learning, Image classification, Econometrics, Time Series Econometrics, Causal Inference, Linear Programming, GIS, Energy Modelling, Database Management

WORK & RESEARCH EXPERIENCE

- Tideland EMC utility: energy resiliency for coastal communities** Jan 2026 - present
- Evaluating energy infrastructure vulnerability and financing mechanisms for resilience projects
- Data Lab Intern, Duke University Libraries** Aug 2025 – present
- Provided data consulting for undergraduate, graduate, and PhD researchers within Duke University
 - Scope of work includes data sources, coding, spatial visualization, software use assistance
- Research project: Energy Transition During Energy Crisis: Cape Town's Experience** Jan 2025 – present
- Project under Prof. Marc Jeuland, Sandford School of Public Policy, Duke University for the City of Cape Town electric utility
 - Using electricity utility billing data along with climate, land parcel, and solar panel adoption data to understand the relation between PV system adoption, load shedding and electricity consumption
 - Responsibilities include econometric modelling in STATA, data analysis/visualization and mapping in Python
- Data Science Intern, Nimble Energy, USA** May – July 2025
- Conducted data analysis for facility interval data, built custom models for outlier detection and identifying load characteristics like opening and closing hours
 - Built a robust pipeline for automated data insights from interval data for clients.

- Undergraduate thesis** Aug 2023 – May 2024
- Title: Estimating household cooling demand through smart meters for effective demand-side management of residential cooling*
- Analyzed how utilities can use interval data for decision-making and policy like load prediction and DSM
 - Developed machine learning models to conduct non-intrusive load monitoring and predict appliance-level use
 - Presented research poster at the ECEEE 2024 Summer Study on energy efficiency and to other clean energy stakeholders

- Summer Research Fellow, ps Collective, India** May 2023 – May 2024
- Conducted data analysis, clustering and classification of residential energy load curves using Python
 - Undertook extensive literature review of load curve research and application of smart meter data

PROJECTS, COMPETITIONS & LEADERSHIP

- Energy in Emerging Markets Case Competition (Won 2nd Place)** Sep - Nov 2024
- Analyzed growth potential and strategies for an E-mobility company in Uganda