

Veena Shirasath

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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, Scikitlearn, statsmodels, PyPSA), R, STATA, QGIS, LaTeX, Tableau, BigQuery
- **Skills:** data visualization, data analytics, data cleaning, machine learning, time series analysis, geospatial analysis, image classification, object detection, energy modelling, load forecasting, financial modelling

WORK & RESEARCH EXPERIENCE

- Energy-sector Practicum: Role of Utilities in Climate Change** Jan -May 2026
- Work on client projects with water and energy utilities in the US to assess their role in climate action and their risks under climate change
- Data Lab Intern, Duke University Libraries** Aug 2025 – present
- Provided data consulting for undergraduate, graduate, and PhD researchers within Duke University
 - Scope of work included data sources, coding, spatial visualization, software use assistance
- Research project: Energy Transition During Energy Crisis: Cape Town's Experience** Jan – Aug 2025
- Project under Prof. Marc Jeuland, Sandford School of Public Policy, Duke University
 - 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