

Dibya Deepta Mishra

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PhD economist with an MS in computer science (machine learning and AI specialization). I build demand, prediction, and pricing models on large-scale structured and unstructured data, with experience in causal inference.

EXPERIENCE

Associate at Cornerstone Research

Chicago, IL — Jan. 2025 – Present

- Estimate demand elasticities and model pricing on large-scale data in technology and healthcare matters, using industrial organization and causal inference methods; analyses support testimony by academic experts.
- Present quantitative findings in plain language to attorneys and executives, and draft analysis sections of expert reports written for non-technical readers.
- Direct teams of 3–5 analysts on methodology, reproducibility, and quality control, and contribute to case strategy with case teams and counsel. Joined as a Summer Associate in 2024 and returned on a full-time offer.

Economist Intern at Amazon, Retail Pricing

Seattle, WA — May – Aug. 2023

- Trained a gradient-boosting demand model with language-model-embedding features engineered from product text, improving demand and price-elasticity prediction over the previous models.
- Built a pricing-optimization model on the estimated demand system to inform pricing strategy across product categories.

Research Associate at the Indian School of Business

Hyderabad, India — Sep. 2017 – Apr. 2019

- Evaluated policy and market interventions on large observational datasets using difference-in-differences, instrumental variables, and propensity matching; taught managerial and healthcare economics to MBA students.

Analyst at HSBC, Business & Regulatory Risk Research

Mumbai, India — May 2014 – Mar. 2015

- Analyzed regulatory and macroeconomic developments to assess risk exposure; presented findings to senior management.

EDUCATION

Ph.D. in Economics

Rice University 2019 – 2024

Fields: industrial organization, structural models, causal inference

M.S. in Computer Science, ML & AI Specialization

Georgia Institute of Technology 2020 – 2024

M.Sc. in Econometrics & Mathematical Economics

London School of Economics 2015 – 2017

MBA (PGDM)

Indian Institute of Management Calcutta 2012 – 2014

B.Tech. in Electrical Engineering

Indian Institute of Technology Jodhpur 2008 – 2012

RESEARCH

Limited Consideration and Universal Healthcare *Working Paper*

- Built and estimated a structural model of discrete choice under limited information in Julia, Python, and Stata, with artificial neural networks estimating risk-adjusted hospital mortality as the hospital-quality measure.

Pharmacy Proximity and Period Poverty *with R. Sethi — Under Review*

- Estimated the impact of store openings on women's outcomes with a doubly robust difference-in-differences design, combining administrative data, spatial APIs with GIS modeling, and DHS survey data; pipeline in Python and Stata.

Spatial Spillovers in Place-Based Programs *with R. Sickles & Y. Sun — Springer, 2025*

- Modeled spatial complementarities in program effects that spill across regional boundaries and bias naive treated-versus-control comparisons; code in Stata, R, Python, and ArcGIS.

Other papers: *Access Equity of 340B Contract Pharmacies* (*Health Affairs Scholar*, 2025); *Incentives in the Healthcare System* (*Harvard Business Publishing*, 2019).

TECHNICAL SKILLS

Programming and tools: Python (pandas, NumPy, scikit-learn, PyTorch), SQL, R, Stata, Julia, L^AT_EX, Git, GIS (ArcGIS) and spatial APIs

Methods: difference-in-differences, instrumental variables, matching, synthetic control, discrete choice, demand estimation, price elasticity, gradient boosting, natural language processing, forecasting, hypothesis testing

Certifications: Financial Risk Manager (FRM, GARP); CFA Level II candidate

AWARDS AND FELLOWSHIPS

Rica & Tony Ligerde Award, Economic Theory Qualifier (Rice), Social Sciences Dissertation Research Grant (Rice), Inlaks Scholarship – 1 of 12 in India (LSE), Charpak Scholarship (French Embassy), Viterbi India Fellowship, NTSE Scholarship