ANIRUDH KROVI

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EDUCATION

NEW YORK UNIVERSITY, Leonard N. Stern School of Business

New York, NY May 2023

Master of Business Administration

Specializations in Business Analytics, Strategy

Recipient, Professor Robert Salomon Faculty Scholarship (full-tuition, merit-based); GMAT: 770 (99th percentile)

NORTHWESTERN UNIVERSITY

Doctor of Philosophy, Theoretical Physics

Evanston, IL *March 2021*

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Bachelor of Technology in Engineering Physics

• First Class with Distinction

Kerala, India May 2014

EXPERIENCE

INDEPENDENT RESEARCH PROJECTS

Chicago, IL

Working papers and details: https://anirudhkvs.github.io/anirudh-fullsite/

2025 - Present

- Built persistent homology classifiers for cyclic patterns in 3400+ city weather records (125 years) and commodity futures (24 years), enabling regime detection and trading signals
- Developed physics-inspired VAEs with latent rhythm/offset variables for arrhythmia classification (MIT BIH) and commodity price modeling
- Designed tunneling-inspired latent-space models using EBMs for Bitcoin trend analysis and trading prototypes
- Created market structure frameworks combining interest rate regime detection (price-volume curvature) with news sentiment archetypes (Delta, Apple)

MCKINSEY AND COMPANY

Chicago, IL 2023 – 2025

Associate

- Built LRP model for \$20B+ pharma portfolio using 8+ datasets, layering policy scenarios for specialty, retail strategy
- Designed valuation model for \$200M+ transformation at \$250B+ pharma distributor, factoring pod structure, complexity, realization curves
- Authored top 5-ranked AI proposal for major U.S. state government (use case evaluation, setup strategy, trust frameworks)
- Built transaction tracking model for ERP rollout across 50+ public agencies, raising field clarity from ~70% to 90%+ on 50K+ records
- Built financial model for \$100M+ ERP Finance upgrade, incorporating labor efficiency and readiness factors
- Developed management strategy for \$600M+ transformation at 35K+ employee insurer, with 3-year roadmap and stakeholder journey map

NORTHWESTERN UNIVERSITY

Graduate Research and Teaching Assistant

Evanston, IL 2015-2021

- Developed dark matter models and proposed experiments achieving 10× improvement over prior results
- Built C++ programs processing 1M+ multivariable data points in 5–10 seconds (6× faster), generating distributions and new metrics; work cited by CERN collaborations
- Taught undergraduate physics with 95% (5.7/6.0) average rating across 5+ years
- Led training for 40–50 teaching assistants, improving student outcomes using multi-year feedback analysis

PHYSICS PUBLICATIONS

- Anirudh Krovi, Ian Low, Yue Zhang, "Higgs portal to dark QED," Physical Review D, 102(5), 055003 (2020).
- Anirudh Krovi, Ian Low, Yue Zhang, "Broadening dark matter searches at the LHC: mono-X versus darkonium channels," Journal of High Energy Physics, 2018(10), 26 (2018).

ADDITIONAL INFORMATION

- **Skills:** Python, C++, SQL, Excel Modeling; Energy-Based Models, Variational Autoencoders, Persistent Homology, Topological Data Analysis; LaTeX, Hindi, Telugu, Intermediate Arabic.
- H1B visa holder (Visa valid till August 2026 along with option of 3-year extension)