

RAHUL KUMAR MANDAL

+16465753436 // rahul.mandal@nyu.edu // <https://www.linkedin.com/in/rkm-nyu/>

EDUCATION

- Expected 12/25 **NEW YORK UNIVERSITY** New York, NY
The Courant Institute of Mathematical Sciences
M.S. in Mathematics in Finance
- **Forthcoming Coursework:** Python, machine learning, calculus, probability, Black-Scholes, Binomial trees, IR models, SDEs, PDEs, portfolio optimization, risk modeling
- 06/18 - 02/20 **INDIAN INSTITUTE OF FOREIGN TRADE** New Delhi, India
M.B.A. in Finance, Strategy, and Marketing
- **Coursework:** Statistics, derivatives, game theory, economics, portfolio management
 - **Honors/Awards:** National qualifier in WorldQuant trading challenge Alphathon
- 05/09 - 04/13 **INDIAN INSTITUTE OF ENGINEERING SCIENCE & TECHNOLOGY** Shibpur, India
B.E. in Metallurgy & Materials Engineering
- **Coursework:** Linear algebra, differential and integral calculus, PDEs, optimization, kinetics
 - **Honors/Awards:** Ranked 36 in all-India National Mathematics Olympiad

EXPERIENCE

- 05/24 - Present **WORLDQUANT** Kolkata, India
Brain Research Consultant (Fast Expression Language, Python, R)
- Built strategies based on statistical arbitrage, Markov chain, Martingale and implied volatility
- 04/19 - 10/19 **Quantitative Research Consultant (Fast Expression Language, Python, R)** New Delhi, India
- Built financial alphas to predict behavior of top 2K NASDAQ equities that have achieved results such as sharpness of 3.06, fitness of 1.34 and returns/drawdown ratio of 3.09
- 04/23 - Present **ETARK SOCIAL** Kolkata, India
Founder (Python, Firebase, MongoDB, Azure)
- Launched world's 1st messaging app to provide full spam control in chats by implementing GTM strategy validated by Bass model that led to 9.8K users within 2 months at zero CAC
- 11/21 - 04/23 **EY** Kolkata, India
Senior Consultant - Quantitative Research, Strategy, Product, M&A, GTM (Python, R, Tableau)
- Built risk management model for global automobile manufacturer based on advanced statistical causal research which generated drop in payment defaults by 42% in 1 quarter
- 04/20 - 11/21 **ETARK** Kolkata, India
Head of Product & Business (Python, R, MongoDB, AWS)
- Built system based on Algorithmic Law that analyzes consumer complaints in <1 min; optimized DAU/MAU >30% and designed GTM to achieve 10% growth at zero CAC
- 01/15 - 06/18 **STEEL AUTHORITY OF INDIA LIMITED** Durgapur, India
Operations, Planning, Business Development Manager (Excel, Linux)
- Increased production by 30% (\$215K) by optimizing logistics, inventory and chemistry

PROJECTS

- 06/22 - Present **CAUSAL AI ALGORITHM**
- Found cause-effect relationships, validated over 2.5 years, reducing model errors by factor of 1K
- 05/24 - 09/24 **INDIAN INSTITUTE OF ENGINEERING SCIENCE & TECHNOLOGY** Shibpur, India
Dynamics of Financial Market Liquidity
- Studied liquidity takers and providers using Lotka Volterra Prey-Predation model and variants

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, Tableau, Linux, MySQL, MongoDB

Languages: English (fluent), Bengali (native), Hindi (fluent)

Affiliations/Certifications: Berkeley Haas MFE Pre-program certification in [Applied Math](#), [Statistics](#) and [Python](#)