

Nikhil Malik

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EDUCATION

PhD Business Technologies

Aug 2016 — Present

Carnegie Mellon University

Research in Progress (FinTech)

- Deep Capital Risk Analyst (Deep CRA) - An Adversarial Neural Net for capital stress testing
- Economics of Bitcoin - A precarious balance of supply side technology and demand side network effects

Working Research Paper (Computer Vision application in Business)

- When does Beauty pay in professional career? – Analysis of 100000+ professionals [Best Student Paper at CIST INFORMS, Houston 2017, Selected for Marketing Science Conference, Philadelphia 2018]
- Optimal Fashion Photography - Customer targeting by attribution of online shopping conversion rates to fashion model and photograph features [Collaboration with Adobe CA, 2017]

Mini Research Projects (Machine Learning and Economics)

- Structural I/O Grounded Deep Learning [ML Course Project]
- Deep Nash Q Learning for dynamic cournot competition markets [RL Course Project]

(Current draft for these papers available on request)

MS Industrial Administration

Aug 2016 — May 2018

Carnegie Mellon University

CGPA: 3.91 on 4.0 scale

- Selected CS coursework: Machine Learning, Reinforcement Learning, Text Mining with ML, Deep Learning, Language grounding in Vision & Control.
- Selected economics coursework: Econometrics, Micro-economics, Game Theory, Dynamic structural modeling, Analytical models in marketing.

BTech Electrical Engineering

July 2007 — May 2011

Indian Institute of Technology, Delhi

CGPA: 8.53 on 10.0 scale

- BTech Project on 3D Virtual Reality [Best EE BTech Project Award 2007]
- Other projects on Speech Recognition and Biological Neural Networks

Standardized Tests: GRE 333/340, TOEFL 115/120, Passed CFA Level I (2016)

WORK EXPERIENCE

Goldman Sachs

June 2011 — Feb 2016

Associate Data Strategist

- Developed Data warehousing Stack: For centralizing ~100 relational data sources with upto 5 Mn rows/source/day.
- Developed Machine Learning solutions for operational risk prediction, client recommendations and regulatory compliance.
- Quantitative Modeling: credit, funding & data quality \$risk for various operational processes.
- Consulting Assignments: Garner sponsorship and build out Data Science teams in Singapore and London.

AWARDS

- Best Student Paper Award - CIST INFORMS Houston, 2017.
- William Mellon Larimer Fellowship – Tepper School of Business, CMU 2016.
- Rajiv Bambawale Best EE Btech Project – IIT Delhi 2011.
- AIEEE Top AIR 350 Scholarship 2007.
- 1st Rank National KV Mathematics Olympiad 2005.

REFERENCES

- Prof Param Vir Singh, Associate Professor and Director PNC Center at Carnegie Mellon University.
- Prof Dokyun Lee, Assistant Professor of Business Analytics at Carnegie Mellon University.
- Afshar Afsheen. Chief AI Officer and Senior MD at Cerebrus Capital Management, NY.
- Robert Aguirre, Vice President at Goldman Sachs.
- Zoltan Szilagyi, Senior Manager at Amazon, NY.

(Contact Details available on request)