

# Nikhil Malik

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9899176233

## EDUCATION

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### PhD Business Technologies

Aug 2016 — Present

*Carnegie Mellon University*

Under Review

- A dynamic analysis of beauty premium with Singh P.V., Srinivasan K., Lee D.K. (ssrn 3208162)
- Why Bitcoin will fail to scale? with Aseri M., Singh P.V., Srinivasan K. (ssrn 3323529)
- Tutorial on Deep Learning in Computer Vision: Methods, Interpretability, Causality and Fairness with Singh P.V.

In Progress

- Bitcoin disruption in payments - winners and losers with Aseri M., Singh P.V., Srinivasan K.
- Can banks survive the next financial crisis - An adversarial deep learning model for bank stress testing with Khan U., Singh P.V.

Mini Research Projects

- Structural I/O Grounded Deep Learning [ML Course Project]
- Deep Nash Q Learning for dynamic cournot competition markets [RL Course Project]
- Online shopping attribution to fashion photograph features [Collaboration with Adobe CA, 2017]

Conferences: CIST INFORMS 2017 (Best student paper), Marketing Science 2018, CIST INFORMS 2018 (Nominated best conference paper), WISE 2018.

### 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

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Goldman Sachs

June 2011 — Feb 2016

*Data Scientist*

- 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: To garner sponsorship and build out Data Science teams in Singapore and London.

## AWARDS

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- Nominated for Best Conference Paper Award - CIST INFORMS Phoenix, 2018.
- 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.