KARTHIKEYAN RAJENDRAN

Passionate about statistical learning and software engineering

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EXPERIENCE

Machine Learning Engineer

Amazon

Ct 2022 - Present

New York, NY

- Built machine learning-based models to optimize rendering decisions (UX) on different parts of the retail site.
- One of two main organizers of a 2-hour tutorial session on the above topic at the internal ML conference, AMLC 2023.

Machine Learning Engineer

Meta

San Francisco, CA

• Consulted on various ranking-related efforts involving Facebook Communities, auditing existing models and developing new ones in the process.

Software Engineer

Amazon

m Jun 2020 - Aug 2021

- New York, NY
- Researched and built recommendation models and developed a service to improve the discoverability of digital educational resources within the retail site.

Quantitative Researcher/Engineer

Bloomberg

₩ Sep 2013 - June 2020

- New York, NY
- · Researched and implemented statistical bond pricing models using empirical market data.
- Developed and maintained parts of a distributed system to price municipal fixed-income securities.
- Built and pioneered the use of interactive visualization tools for modeling and presentation in a cross-functional team. Also served as a bridge between quants, developers, and product owners.

Assistant in Research/Instruction

Princeton University ₩ Jan 2009 - June 2013

- Princeton, NJ
- · Computationally implemented reduced descriptions of dynamical network models, thereby accelerating numerical simulations and performing useful system-level analysis
- First author of a book chapter
- Co-authored 8 papers in professional journals
- Google Scholar publication list: https://goo.gl/soRHCf

ANGUAGES

Python R Shiny JavaScript Java Flutter/Dart SQL

EDUCATION

PhD, dynamical systems | GPA 4/4 **Princeton University**

₩ June 2013

Princeton, NJ

- In the chemical engineering department with thesis in the area of applied mathematics
- More details in the work experience section

B.Tech & M.Tech | GPA 9.64/10 **IIT Madras**

Chennai, TN, India

- · Major: Chemical Engineering
- · Minor: Industrial Engineering
- Class Rank: 1 out of 50

ACHIEVEMENTS

2016 - Glover Klingman Prize

Second author of the best paper in the journal Networks

2012 - Ray Grimm Memorial Prize

Awarded for significant achievement in computational physics

2008 - Gordon-Wu fellowship



Awarded to pursue graduate research at Princeton University

2003 - State Rank 3



Among more than 100,000 students in state engineering entrance exam

ACTIVITIES

Volunteer and Team Lead. New York Cares

2013 - Present

New York, NY

· Led projects ranging from education to food security.

Hobbyist app development

• Recreated the NY Times Spelling Bee game: https://ply.gl/com.kraj.spelling.bee

SKILLS

statistical/predictive modeling optimization multivariate analysis numerical methods neural networks large-scale distributed systems cloud computing

practical problem solving