RAHUL MAKHIJANI

Staff Machine Learning Engineer

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Summary

Machine learning leader focused on real-time decision systems and simulation frameworks. Ph.D. in Operations Research from Stanford University. Built and scaled production ML systems delivering $100M+ in measurable impact while balancing risk, efficiency, and operational complexity within finance and logistics industries.

Skills

Real-Time Decision Systems
Constrained Optimization
Stochastic Modeling
Simulation & Counterfactual Evaluation
Marketplace & Fintech Systems
Python, PyTorch
Gurobi, Pyomo

Education

Ph.D., Operations Research
Stanford University (2014 – 2019)

M.S., Statistics
Stanford University (2017 – 2018)

B.Tech (Honors), Electrical Engineering
IIT Bombay (2009 – 2013)

Experience

Staff Machine Learning Engineer
EarnIn   07/2025 – Present

- Architecting a repayment policy simulation platform for loss optimization.
- Designed experimentation platform to significantly reduce iteration time.

Tech Lead, Machine Learning – Marketplace Logistics
Instacart   07/2021 – 06/2025

- Productionized matching optimization algorithms for matching deliveries to shoppers.
- Pioneered Priority Multi-batching as a new product offering.

Senior Research Scientist
Meta (Facebook)   07/2019 – 07/2021

- Built discrete-time event simulation simualtions for capacity planning for content modeation.
- Implemented bandit algorithms for SMS routing systems.

Lecturer
UC Davis   01/2022 – Present

- Teach graduate-level Machine Learning and Analytics courses.

Applied Scientist
Amazon   06/2018 – 12/2018

Quantitative Analyst
Barclays Capital   07/2013 – 08/2014