Kartikeya Mohan Sahai

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PROFILE

Operations Research professional with experience in Inventory Management, Logistics, and Supply Planning. Currently driving systems and process improvements for Inventory Management and Optimization within Supply Chain Optimization at SanDisk Corp.

EDUCATION

University of California at Berkeley
Master of Engineering, Industrial Engineering and Operations Research — May 2014
GPA: 3.81/4.00

Indian Institute of Technology - Guwahati
Bachelor of Technology, Mechanical Engineering — May 2013
CPI: 8.66/10.00

EXPERIENCE

Industrial and Operations Engineer, Supply Chain Optimization — July 2014 – Present
SanDisk Corporation – Milpitas - CA, U.S

- Effected 65% reduction in captive turn-key material reserves amounting to USD 2.2M savings over 2015. Achieved through implementing new material excess management processes, enhancing SanDisk's proprietary inventory optimization engine and working closely with procurement teams on PO management.
- Led 47% reduction in memory reserves impacting USD 15M savings over 2015. Facilitated through driving alternate product qualifications for memory supply based on engineering risk, building policies to automate disposition of memory obsolescence, and serving as the primary operations liaison to component sales team.
- Recognized through peer-nominated awards for ability to execute and for cross functional teamwork, exhibited within roles played in inventory optimization and excess management.

Visiting Researcher, Management Information Systems — Dec 2011 – July 2012
John Molson School of Business & Indian Institute of Management - Ahmedabad

- Formulated a single allocation p-hub location model for cost-optimal hub location and routing in logistics networks. Linearized hub processing time constraints for multi-priority package queuing systems.
- Designed Lagrangian-Relaxation & cutting-plane based heuristics for optimizing hyper-scale cases of the multi-priority model spanning over 16 million possible network configurations
- Generated optimal routes within 20 node hub-and-spoke graphs using Cplex for C++ users. Currently reviewing a manuscript: Vidyarthi et al. (2015) for submission to EJOR – Transportation Research

Crowdfunding Research Assistant III — Jan 2014 - July 2014
Fung Institute, University of California Berkeley

- Advisory position focused on advancing research on the dynamics of Crowdfunding, through the development of data collection, visualization, and archiving infrastructure to facilitate research in the space globally.
- Studied the impact of location and backer signaling on project success, analyzing 44,000 Kickstarter projects, USD 840M in funding. Discovered a significant dependence of crowd interest on industry concentration
- Developed dashboards for visualizing geographic trends in *Kickstarter* project data, using Leaflet maps. Data extracted through HTML parsing, archived in SQLite3 databases, and hosted on Python Flask servers.

SKILLS AND KNOWLEDGE BASE

Tools: MS Excel, MatLab, Cplex for C++ and matplotlib/pandas for Python
Languages: C++, SQL, AMPL and Python

HOBBIES

Building Mathematical Programs for everyday life problems and running cross country