KETAN NAYAK

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EDUCATION

Massachusetts Institute of Technology (MIT), Cambridge, MA
Master of Science in Computation for Design and Optimization GPA: 4.8/5.0 2013

Indian Institute of Technology (IIT), Madras, India
B.Tech in Engineering and M.Tech in Product Design GPA: 9.55/10 2011
Class Rank 1 – secured 3 Institute Merit Prizes for academic excellence

WORK EXPERIENCE

Applied Predictive Technologies, Arlington, VA Aug 2013-Present
Associate Product Manager

- PM on the Test and Learn product for the result visualizations part and the PM on the APT Index product
- Released a key feature called basket linkage, which facilitates the analysis of customer baskets in a test analysis
- Released a new dynamic output called the Breakout Tree to help users apply and visualize data splits efficiently
- Conceptualized and released a feature to allow users to use the APT Index in a test vs. control analysis to measure the impact of nationwide initiatives and analyzed a major initiative for a top-6 US restaurant chain
- Created an APT Index only product and custom Index reports that resulted in the first ever client to license that product

Samsung Electronics, Korea & MIT, Cambridge, MA Aug 2011-May 2013
Research Assistantship

- Developed inventory control models that reduced inventory by 18% and flow times by 16% in the LCD TV line
- Built analytical models to enable real time decision making with throughput prediction errors of only about 10%
- Conceptualizing inventory transfer strategies between production lines with a wide product mix

UBS Investment Bank, New York, NY Jun 2012-Aug 2012
Securities Summer Internship

- Developed an automated trading system based on statistical learning models to uncover opportunities in volatility trading and built Excel tools to rate custom structured fixed income products
- Analyzed volume and volatility data around key dates to obtain insight on effects of regulatory policy implementation
- Generated communication material to key clients independently and carried out extensive discussions on trade ideas

General Electric, **John F Welch Technology Center, Bangalore**, **India** May 2009-Jul 2009
Summer Internship

- Characterized prediction accuracies in a manufacturing process using statistical models and six sigma methodology
- Engineered a rear view system for automobiles that increased viewing area by 80% and reduced design time by 40%

LEADERSHIP AND EXTRA-CURRICULAR ACTIVITIES

- **MIT School Manager, Applied Predictive Technologies** – Lead all the recruiting efforts at MIT from APT, including planning the event calendar, partnership with school clubs and other related activities
- **Department Representative, CDO Department, MIT** – Sole student representative to the Graduate Student Council for the year 2012-13. Responsible for all student activities organized by the department
- **Lead Organizing Member, Computational Engineering Symposium, MIT** – Lead organizer for an inter-departmental symposium in March 2013 which had a participation of more than 50 people last year
- **Placement Representative, IIT Madras –** Successfully placed 200 students in over 50 companies. Developed content for a souvenir book that was presented to the German Minister of Education and Research
- **Headquarters Coordinator, National Service Scheme (NSS), IIT Madras -** Conducted state-wide camp for the first time with about 200 volunteers. Introduced computerization of accounts and budgets in the headquarters office

HONORS AND ACHIEVEMENTS

- GE Foundation Scholar Leader, awarded for community leadership excellence to about 200 students from 14 countries
- Indo –US Science and Technology Forum scholarship for summer internship at Northwestern University, Evanston, IL
- National Talent Scholar at the high school level ranked 8th in the State
- Ranked in the top 0.5% among 300,000 students in the IIT Joint Entrance Examination 2006