**Rajat Garewal**

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**EDUCATION**



**University of Cincinnati, Carl H. Lindner College of Business**  **Expected Graduate Date:** 08/08/2015

# *Master of Science, Business Analytics* GPA: 3.75/4

* **Organizations:** American Statistical Association, Mountaineering Club, Cats for Cause
* **Courses:** Forecasting & Time Series, Data Mining, Statistical Modeling, Probability Models , Data Visualization, Simulation Modeling, Statistical Computing, Multivariate Methods, Optimization Methods

**Projects:**

* Predicting the winning bid for penny auctions following Poisson Distribution from buyer’s perspective
* Linear Regression model for Hardship Index for the city of Chicago using socioeconomic indicators of public health
* Optimization of University of Cincinnati’s Shuttle services using daily passenger data and demand elasticity
* Data visualization of KPIs for world health and sustainable energy with Tableau

**PROFESSIONAL EXPERIENCE**



### Procter & Gamble Research Center, University of Cincinnati Oct-2014 to Present

**Research Assistant**

* Collaborated in the development of ‘Demand Planning, Forecasting & Simulation’ model and simulated the inventory with over 50 parameters to align the statistical forecast with weekly demand and supply
* Author and owner of the ‘Demand Planning & Simulation’ paper expounding the workings of the forecasting model for non-technical audiences including executive leadership teams in US & China
* Collaborated in the development of the Rate Reliability model quantifying P&G’s E2E supply chain and sensitivity of Bullwhip factor to over 100 parameters

**Citigroup,** Bangalore, India May-2013 to July-2014

*Analyst/Asst. Manager*

* Designed the strategy for re-activation of inactive credit card customers leveraging Decision Trees (CHAID) & Logistic Regression for segmenting inactive population leading to an incremental revenue of $200MM
* Validated the in-store sales suppression for Master Card customers acquired from other banks using A/B testing, designed Test &Control population using k-nearest neighbors. Additionally, identified a glitch in the algorithm to calculate Internal Sales and other P&L metrics, with organization wide impact
* Optimized the strategy for customer retention channels using Logistic Regression models to analyze customer attrition, segmented the customers, and determined the customer segments less likely to churn out of the system
* Provided Financial & Risk metrics for various campaigns to assess financial viability

**Mu Sigma Inc.,** Bangalore, India Sep-2011 to May-2013

*Senior Business Analyst*

* Developed Mixed Linear Models (in GLM) and forecasted the returned merchandise arriving at warehouses for a large home improvement retailer to prevent them from running out of capacity with at least 90% weekly accuracy
* Optimized the warehouse inventory by performing Clustering Analysis, grouping similar SKUs, which lead to reduction in the idle time for items at the warehouse before getting returned to the vendor
* Oversaw a major dotcom acquisition by the client as the Lead Offshore Analyst , designed numerous dashboards and performed cannibalization analysis quantifying the impact of the acquisition

CERTIFICATIONS



Data Scientist Toolkit & R-Programming

SKILLS



* **Tools/Languages:** R, Python, Ruby, SAS, SQL, Java, Tableau, UNIX Scripts
* **Big Data**: Hadoop, MapReduce, Pig, Hive, Spark, Impala
* **Statistical Skills:** Linear Regression, Decision Trees (CART & CHAID), Random Forest, Logistic Regression, Clustering Analysis ,Factor Analysis, t-test, SVM, Time Series Forecasting, Neural Networks, ARIMA, GARCH