

SOHAM SANJAY JOSHI

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EDUCATION

North Carolina State University , Raleigh, NC <i>Master's in Operations Research (GPA 3.52 / 4.0)</i>	Jan 2017 - Dec 2018
University of Pune , Pune, India <i>Bachelor of Engineering in Mechanical Engineering (GPA 3.77 / 4.0)</i>	Aug 2010 - May 2014

TECHINICAL SKILLS

Knowledge domains:

Data Analysis: Data Wrangling, Data Analysis and Visualization, Mathematical programming, Dynamic Programming, Predictive Analysis, Machine Learning, Stochastic modelling and Simulation, Process Optimization.

Supply Chain: Supply Chain Analytics, Sourcing and Procurement, Supplier Analysis and Supply Management, Risk Analysis.

Tools and Languages: SQL (SSMS), Power BI, Tableau, Python, R, SAS Base, VBA Macros, MS Excel, LINDO, MATLAB.

WORK EXPERIENCE

Graduate Research Assistant Feb 2018 - Aug 2018

Supply Chain Resource Cooperative, NCSU

East Carolina University, BioIndicators Project – Analyst:

- Created a database using SQL Server. Scheduled data update tasks to reduce data entry times by over 4 hours per week.
- Created visualizations using Power BI. The dashboards were integrated onto a web-based UI for end-users.
- ECU researchers will present data to the USDA showing economic impact of Bio-alternatives in the US and around the world.

VF Corp, Global Supplier Audit Analysis – Student Consultant:

- Extracted supplier audit reports data for all global suppliers of VF Corp to create a database.
- Used Power BI to create a data model and present visualizations for a better understanding of supplier assessment. Currently using predictive analysis to create a likelihood matrix that will help assess the risk associated with a supplier.

DHL, Supplier management tool – Student Consultant

- Updated a tool provided to DHL by the SCRC. The tool delivers a platform to create business strategies to deal with suppliers based on certain criteria. Updated the tool to provide greater functionality. Formulated strategies can now be compared so that they may be updated based on changing supplier criteria.

Student Intern

Sept 2017 – Dec 2017

Lenovo Data Center Group

- Performed Data Analysis of customer service provided during the life cycle of Lenovo Products. Used Tableau to cleanse, Visualize and Slice data to find patterns and extract meaningful information.
- Used Markov Decision Processes to recommend optimal service actions for Lenovo. Stochastic Modelling used to predict number and severity of issues based on historical data.

Systems Engineer

Jun 2014 - Nov 2015

Infosys BPO, Pune, India

- Analyzed and optimized data for client (Procter & Gamble) using MS SQL Server, Infosys in-house tools IDSS (Infosys Data Services Suite) and PARE (Process Automation Reporting Engine).
- Performed process optimization to reduce data reporting cycle times by over 40% for daily reports and over 15% for weekly, monthly reports. Awarded for excellent performance by Infosys and appreciated personally by the Client Operations Head.

ACADEMIC PROJECTS

Dynamic Programming to Solve a live Scheduling Problem Jan 2018 – Apr 2018

- Used a combination of dynamic programming and heuristic methods to solve a production scheduling problem.
- Formulated recursive functions in Python to schedule production tasks in the first half of the process and heuristics to schedule the remaining tasks. Improved daily production times by over 20%.

IT Best Practices Research and Analysis (American Red Cross)

August 2017 – December 2017

- Project included Spend Data Analysis for IT category and study of Contract management at American Red Cross.
- Studied and analyzed Red Cross's contract management and documentation process. Identified ways to improve upon the process and recommended best practices relating to low value, low risk contracts.
- Formulated a Contract template for one important IT subcategory to reduce disputes with suppliers regarding contract terms.

Spend Analytics for Hospitals

Sept 2017 – December 2017

- Compared Hospital spend on High Cost, Low Volume products with normal market channels in context of Group Purchasing Organizations and whether they really contribute to lowering costs.
- Project involved analysis of considerable data and market research pertaining to suppliers and GPOs.