

RUSHI SHETH

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EDUCATION

LEHIGH UNIVERSITY, BETHLEHEM, PA

Masters of Science in Industrial and Systems Engineering

MAY 2019

GPA: 3.53

K. J. SOMAIYA COLLEGE OF ENGINEERING, MUMBAI, INDIA

Bachelors of Engineering in Mechanical Engineering

MAY 2016

SKILLS

Programming and Softwares: R, Python, SQL, HTML, STATA, Tableau

Algorithms: Decision trees, Regression models, SVM, Apriori, KNN, Ensemble methods, K-means, Neural networks, Recommendation Systems

Soft Skills: Collaboration, Decision-Making, Presentation

Hard Skills: Logistics and Supply Chain Management, Optimization, Forecasting, Statistics, Managerial Economics, Data Mining

PROFESSIONAL EXPERIENCE

BUSINESS ANALYST INTERN

Melissa & Doug - Lehigh University ESC

JANUARY 2019-MAY 2019

- Worked with the senior level staff of the toy manufacturer to conduct **root cause analysis** for frequent over and under stocking of 2000+ SKUs
- Proposed changes in sales and operations planning to improve inventory management
- Analyzed data to identify dead stock products and loss making assortments and bundles worth \$ 3M
- Decreased inconsistency in product and transaction data by integrating multi-year sales and inventory data using **SQL**

BUSINESS ANALYST INTERN

Factory LLC - Lehigh University ESC

OCTOBER 2018-DECEMBER 2019

- Generated and communicated sales and operational insights using **Tableau**
- Identified new warehouse and contractor locations using optimization models to lower the operations and transportation costs by 18% - 35%
- Documented user guide to assist the non-technical staff with modeling techniques and process steps

NETWORK OPTIMIZATION MODELER INTERN

B.Braun Medical Inc.-Lehigh University ESC

JUNE 2018-SEPT. 2018

- Collaborated with the Supply Chain and Marketing teams for restructuring the production and distribution network design for 500+ US customers
- Developed a **multi-commodity, multi-facility production routing optimization** model using AMPL
- Leveraged the model to perform **what-if analysis** and identified **potential savings of 7%** in operational costs

PROJECT PORTFOLIO ([www.\(dot\)rushisheth\(dot\)com](http://www.(dot)rushisheth(dot)com))

MACHINE LEARNING PROJECTS

- Predicting customer's purchasing intention through an **imbalanced dataset** of click data using **Decision Trees**
- Comparing **evaluation metrics** by classifying muscular movements into hand gestures using **Logistic Regression** and **K-Nearest neighbors**
- Classifying gender of subscriber from movies review using **Spark**
- Testing for occupancy in the room using sensor data

DATA ANALYSIS PROJECTS

- Exploring New York Times Best Sellers semi-structure dataset using **Spark SQL**
- Data mining and visualizing the New York taxi traffic for mobility and customer patterns using **spark and matplotlib**
- Dealing with missing data – A case study using Bridge Classification dataset
- Experimenting with **association rules** using FP Growth in **Spark**.

BLOGS

- Regularization methods in machine learning
- Optimization and Loss functions- The math behind machine learning
- Statistics for Data Science: **Hypothesis Testing using R**

LOGISTICS, SUPPLY CHAIN MANAGEMENT AND MANAGERIAL ECONOMICS

- Optimizing battery charging costs using **dynamic programming approach**
- Examine various **quantitative forecasting and inventory management models** for better decision-making
- Analyzed **resource allocation & pricing strategies** in various market structures
- Conducted multiple regression & hypothesis testing for empirical estimation of **demand, production & cost functions**

LEADERSHIP AND TEAMWORK

TEAM KJSCE ROBOCON

K.J.Somaiya College of Engineering, India

2012-2016

- Led a multidisciplinary team of 32 students in an annual Robotics competition, ABU ROBOCON 2015, improving team performance from Top 50% to Top 20% in India. (All India Rank 18 of 92)

INTERNATIONAL STUDENTS ORIENTATION LEADER

The Office of International Students and Scholars - Lehigh University

AUGUST 2018