

Varneeraj Patel

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EDUCATION

Binghamton University, Thomas J. Watson College of Engineering and Applied Science, USA

Master of Science in Industrial and system engineering

Anticipated May 2021

Indus University, Indus Institute of Engineering and Technology, Ahmedabad, India

Bachelor of Technology in Automobile Engineering

May 2017

TECHNICAL SKILLS & ABILITIES

Technical: Python, R, SQL, SAP, Advance Excel (Pivot tables, V-Lookups), Tableau, Power Point, Microsoft Office, Google Sheets, Google Slides

Certification: LEAN SIX SIGMA GREEN BELT

Additional: Lean Manufacturing, DMAIC, Kaizen, Poka Yoke, Kanban, Continuous Improvement

PROFESSIONAL EXPERIENCE

Data Analyst Intern, Everlife Energy India Pvt Ltd, Ahmedabad, India

April 2019 – June 2019

- Assisted the supply chain department by creating a system using SQL and Excel for monitoring of the inventory to ensure all the business requirement is met. Used pivot tables in excel for analysis purpose.
- Resolved inventory problems Used R and Tableau for Visualizations, Summary Reports and Presentations.
- Used Python libraries like NumPy, Pandas, and SciPy for data analysis purposes.
- Created Ad-hoc charts like donut charts, Funnel charts, analytical models used for the Dashboard and modified existing Tableau workbook stories and added Action filters.
- Developed dashboards for revenue data which educated, informed and helped management make decisions about its receivables and defaulting customers thereby increased revenue collections by 2%

Business Analyst Intern, Rasayan World, Ahmedabad, India

June 2018 – September 2018

- Key contributor in consolidated reporting, and reviewing financial documentations, including key business metrics monthly, quarterly and yearly flash reports using Tableau.
- Defined functional requirements, scope, current process & risks analysis, including user-stories, wireframes and workflows
- Defined, documented, and managed requirements which helped to identify errors, perform root cause analysis, and porter's five force analysis to understand the potential of the market
- Contributed to creating data visualizations(tableau) graphs that increased client efficiency and improved customer performance by 10%

PROJECT EXPERIENCE

Car Launch Recommendations (Python, Pandas, Matplotlib) Binghamton University

- Imported data from the excel sheet and stored it in the array, calculated the mutual information for the array. Made a function that can find the location of the minimum value of MI with the particular season
- Python dictionary analysis the data and show the results. Results can help car manufacturers to figure out when and where to launch the particular car so they can get maximum sales. Plotted the graph of the results using Matplotlib

Cost Reduction for An Automobile Manufacturer, Binghamton University

- Formulated a problem as an LP for given two options (Fixed workforce, Variable workforce), Defined decision variable, objective function and constraints. Solved the problem using AMPL (AMPLIDE) for both the option, used the solver CPLEX in AMPL to solve the problem, defined parameters and variables,
- Based on the results the company should select first option which was fixed workforce to minimize their total cost

Decision Support System for a University Library, (VBA, Pivot table), Binghamton University

- Developed an automated support system for a University Library for searching the DVDs and books in the library.
- Utilized the excel VBA for user forms and pivot table for the interactive dashboard. It gave smooth experience of searching the books and the DVDs in the library

Global Supply Chain Network Design, Binghamton University

- Designed a global supply chain network considering the KPIs, minimizing the costs and maximizing the profits and thereby providing optimal solution for the problem
- Visualized the data using Tableau and generated an optimal solution using Simplex Linear Programming in Excel Solver