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 & ABILITES

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, Continues Improvement

PROFESSIONAL EXPERIENCE

Data Analyst Intern, **Everlife Energy India Pvt Ltd, Ahmedabad, India** *April 2019 – June 2019*
- Designed and developed Relational Database Management System using MySQL and SQL Server.
- Used R and Tableau for Visualizations, Summary Reports and Presentations.
- Developed programs with manipulate arrays using Python libraries like NumPy, Pandas, and SciPy.
- 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 in python

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