Rahul Ashok Jeyalakshmi

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📞 +1-908-560-6464| ✉ **kprrahul2018@gmail.com**| 🔗 Rahul Ashok Jeyalakshmi |Porfolio: My Portfolio

Seasoned Data Analytics Professional with hands-on experience in data cleaning, transformation and analysis to support business decision making. Highly Proficient in leveraging SQL and data-driven insights to build dashboards, optimize reporting workflows, and drive continuous improvement in fast-paced environments. Actively seeking opportunities to apply my analytical expertise and deliver impactful, actionable insights in the dynamic field of data analytics.

EXPERIENCE

Research Intern, University at Buffalo, NY, United States   Feb 2025 - Present

- Developed a **manufacturer benchmark report** ranking top brands by average range, battery capacity, and price, helping highlight competitive positioning in the EV market.
- Collected, cleaned, and organized EV performance and pricing attributes across **26 model years (1995–2025)** and **45 manufacturers**, standardizing key fields into an analysis-ready dataset that enabled large-scale trend and benchmarking analysis**, improved KPI reporting accuracy**, and supported **dashboard-ready analytics** in **Power BI** for executive-level decision-making.
- Prepared a final dataset with 100% completeness on crital analysis fields to support predictive modeling and Visualization.
- Implemented **SQL-based data extraction** and transformation workflows to refresh **datasets efficiently**, improving data refresh speed by **35%** and supporting timely business insights.
- Identified that **80%** of urban freight originates or ends in metropolitan areas, emphasizing the need for **emission-focused strategies**.
- Assessed logistics influencer's impact on vehicle procurement policies, pushing the adoption of **low-emission vehicle fleets**.
- Investigated truck companies shift to alternative fuels, linking it to **long-term cost savings and lower environmental penalties**.
- Evaluated barriers and enablers for electric vehicle (EV) adoption in Turkey's urban freight sector, **emphasizing stakeholder collaboration for decarbonization.**

Industrial Service Engineer, MABS Associates,Trichy, India   Jun 2022 – Mar 2023

- Achieved **25% reduction in equipment downtime** by utilizing **root cause analysis** to optimize pump maintenance and enhance overall **operational productivity**.
- Improved first-time fix performance by **20% by using RCA** to identify common fault patterns (seal leakage, misalignment, bearing wear), updating troubleshooting procedures, and standardizing repair and verification tests.
- Conducted on-site installations, maintenance, and repairs of industrial pumps and motors, reducing time by **10%** through **standard operating procedures for the production line.**
- Collaborated with a team of three members to optimize the maintenance process, **cutting repair time by 30% and saving up to $50,000**.
- Implemented **preventive maintenance schedules**, increasing the lifespan of industrial equipment and lowering operating costs, resulting in improved **equipment reliability and reduced unexpected breakdowns**.

Supply Chain Coordinator Assistant, Shree Vari Fly Ash Bricks, Tuticorin, India   Jun 2020 – Feb 2021

- Built **Power Bi Dashboards** to track procurement and insights KPIs, **reducing manual reporting effort by 35%**.
- Processed and managed an average of 150 purchase orders per month, ensuring timely procurement of materials and reducing lead times by 20%
- Assisted in developing and implementing a **streamlined logistics strategy**, reducing **transportation costs by 10%** and minimizing stockouts, improving production efficiency.
- Developed strong relationships with suppliers to ensure a consistent and reliable supply chain, negotiating favorable terms and maintaining open lines of communication.
- Performed cost-benefit analyses of different supply providers, helping the company make data-driven decisions that resulted in a **5% ($20,000) reduction** in overall procurement costs.

EDUCATION

Master of Science	Industrial Engineering	University at Buffalo	(3.46/4)	January 2025
Bachelor of Engineering	Mechanical Engineering	Anna Universiy	(8.4/10)	May 2022

ACADEMIC PROJECTS

Analyzing the Environmental and Social Impact of Sustainable Practices   Sep 2023 - Dec 2023

Tool Used: Excel, Python, Power Bi

- Developed data-driven models using linear regression analysis to forecast environmental benefits and cost savings from implementing green technologies in E-commerce operations.
- Analyzed emerging green supply chain technologies**, resulting in a 20% projected reduction** in carbon emissions for the proposed E-commerce strategies.
- Evaluated carbon footprint reduction formulas and logistics strategies, including CO_2 emissions comparisons across air, road, and sea transport.
- Assessed sustainable packaging opportunities using recyclability rate and packaging efficiency metrics to reduce material usage and waste.

Optimization of Retail Store Layout Using Market Basket Analysis and A-Score Efficiency   Sep 2023 - Dec 2023

Tool Used: A-Score Efficiency, REL Chart, Market Basket Analysis

- Conducted a Facility Layout Optimization for Saideep Superstore, enhancing product visibility and operational efficiency.
- Applied Market Basket Analysis to uncover hidden product associations and improve customer flow.
- Utilized A-Score efficiency method to evaluate layout effectiveness, improving layout efficiency from **61.5% to 81.4%.**
- Implemented layout changes by reallocating aisles and rack positions based on customer preferences, improving shopping and product accessibility.

SKILLS

Programming and Design: Python, SQL,C,C++, AutoCAD Mechancial , Solidworks, Fusion 360, Onshape.

Data Analytics Tool: Power BI, Tableau, MS Excel, Minitab, Data Validation, Data Visualization.

Process Improvement: Lean Manufacturing, 5S, Six Sigma, Process Optimization.