GAURAV CHAUDHARY

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EDUCATION

State University of New York at Buffalo, Buffalo, USA **August 2024 - Present**
Masters in Data Science

National Institute of Technology Tiruchirapalli, India **July 2017 - May 2021**
Graduated with a Bachelor of Technology in Mechanical Engineering with *First Class.*

PROFESSIONAL EXPERIENCE

Merilytics – An Accordion Company, Hyderabad, India **June 2021 - June 2024**

Associate (Business)

- Handled Internal team management (5 members) and Client Communication, along with dashboard development
- Addressed the data anomalies and gaps in system data to enhance 3+ reporting on Inventory, Spend and Sales Front
- Developed Python script for automated QC between the dashboards and source ERPs to save the team's efforts
- Created holistic Inventory dashboard, helping both Finance and Operations teams by linking the Inventory movements with financial postings for Financial reporting and improving operational efficiency
- Helped the department heads and Leadership by reporting the department spend and budget with row-level security at the department level for enhanced expense monitoring, budget management, and strategic planning based on trends

Senior Analyst (Business)

- Staffed on a short-term project with a Niche Manufacturing firm to independently develop entire business reporting in PowerBI through an online data warehouse, which is also managed by our team
- Liaised with 3 + C-Suite executives to craft dashboard wireframes and build data-driven solutions for strategic decisions
- Developed 6 Dashboards by building 150+ data pipelines from 2 different data sources and transforming the data through SQL and Analysis Services from scratch in the span of 6 months
- Acted as the bridge between Clients and the Data management team (3 members) to translate the business requirements into a clear set of instructions and drive technical execution for on-time delivery
- Reduced the YTD debookings by ~30% from FY'22 to FY'23 by providing visibility through bookings and orders dashboard
- Received 'Spotlight' award for my impressive overall performance

Analyst (Business)

- Tasked on a project with an Electric Charging Station OEM as a business analyst to analyze financials and sales and develop Tableau Dashboards for reporting
- Decreased the opportunity turnaround time by 1.5 days while also reducing the On Hold opportunities amount by 4% by providing enhanced visibility into sales data through the Sales Dashboard
- Reduced 15+ man-hours a week by developing an automated report showcasing the holistic opportunity to cash flow datasets in Excel, which also became the major source of reporting for clients
- Decreased backlog by 10%+ by performing lead time analysis along with backlog evolution analysis using Excel and Tableau dashboard reporting.
- Improved Cash Collection by 7% by enhancing transparency into Collection effectiveness through the AR dashboard
- Received 'Above and Beyond' award (1/350+) for the high-quality work delivered through dashboards
- Stood in top 4 (Out of 16 teams) of the Data science hackathon organized in the company

ACADEMIC PROJECTS

Crack propagation in a plate under velocity boundary conditions using peridynamics

- Aimed at assessing the performance of methods of peridynamics in simulating crack propagation using simulation.
- Created script using Fortran to simulate the crack propagation and the results were more accurate than fracture analysis methods of Classical Continuum Mechanics such as Classical Linear Elastic Fracture Mechanics.

R1234yf refrigerant analysis (Research)

- Directed at finding the usability of R1234yf instead of HFCs in current refrigerators.
- Developed Python script to find an optimum mixture of R1234yf and R125, which satisfies COP, GWP, and flammability criteria according to the Paris Agreement.
- Served as a basis for further practical experimentation to use R1234yf as a refrigerant.

Thermo-Structural stress analysis of Connecting rod

- Focused on analyzing the thermal and structural stresses that affect the connecting rod during working and designing a connecting rod that can handle the same.
- Utilized the Rankine-Gordon Analytical method to design the connecting rod for extreme working conditions and performed thermos-structural analysis to confirm if the rod could handle all the stresses.

TECHNICAL SKILLS

Programming Languages: SQL and Python
Visualization Tools: Power BI and Tableau
ERPs and CRMs: SAP, Salesforce, Infor's CSI, Delmia Works
ETL Tools: Azure, Snowflake
Miscellaneous: Microsoft Office, JIRA