Gaurangi Agrawal

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https://gaurangi-06.github.io/Gaurangi/

EDUCATION

Boston University, Questrom School of Business: M.S. in Business Analytics (3.57/4.0)   01/2025

MIT World Peace University, India: B-Tech in Electronics and Communication Engineering (3.89/4.0)   05/2021
- Automated a supply chain network using MQTT, AWS, and Django, enhancing efficiency, and published "IoT and Analytics for Supply Chain" in Pensee journal

WORK EXPERIENCE

Business Analytics Summer Intern, Henry Schein, NY   05/2024 – 08/2024
- Organized and optimized 100K+ healthcare financial records using SQL and Microsoft Access, automating reporting via Power BI to improve accuracy and efficiency
- Enhanced stakeholder decision-making by analyzing 800K+ sales records, creating over 50 pivot tables using DAX, and building actionable Power BI dashboards
- Partnered with cross-departmental teams to consolidate six years of sales data (1M+ rows) using Power Query, identifying actionable trends for senior leadership

Graduate Research Assistant (Supply Chain Analytics), Boston University, MA   01/2024 – 05/2024
- Led a team analysis on ESG impact trends using regression on 50+ supply chain factors; findings guided research on policy implications from 2010–2022
- Presented insights to academic partners through Python visualizations (Plotly/Matplotlib), identifying shifts in ESG adoption due to emerging sustainability policies

Programmer Analyst, Cognizant Technology Solutions India Pvt. Ltd., India   08/2021 – 08/2022
- Streamlined workflows with Power Automate and Excel for data integration and reporting, reducing task processing time by 40%, improving data accuracy by 80%, and resolving technical challenges using SQL, Git, and JIRA
- Designed SharePoint sites for client, maintained ETL pipelines using Git and DevOps for real-time KPI monitoring of customer revenue insights, improving processing efficiency from 70% to 95% and ensuring data accuracy

ACADEMIC PROJECTS

Google Reviews AI Pipeline & Analytics   10/2024 – 12/2024
- Developed an ETLT pipeline to scrape 130K+ Google Reviews via Apify, using Google Cloud Storage, MotherDuck as a data lake, and Prefect for orchestration; created dashboards in Apache Superset for restaurant insights
- Refined pipeline with MLOps and LLMOps, integrating VADER and BERT for sentiment analysis and topic modeling; implemented Streamlit and Vertex AI for dashboards and personalized recommendations

Impact of Environmental and Supply Chain Metrics on Company Financials   03/2024 – 05/2024
- Analyzed 77,313 entries, regression analysis revealing that COGS accounts for 92.6% of revenue variance, enhancing financial predictions in supply chain e-waste management
- Developed interactive Tableau dashboards to analyze the impact of different company sectors on financial ratios such as ROA, ST, and others, facilitating data-driven decisions in environmental and financial strategies

Understanding Graduation Success   10/2023 – 12/2023
- Cleaned and integrated multiple datasets, creating 2 interactive Tableau dashboards to visualize key education metrics such as graduation rates, test scores, and financial aid impact
- Performed financial and educational data analysis using SQL, Python, and BigQuery, integrating and analyzing 1M+ records to uncover 10+ key trends and disparities in US college completion and graduation rates

SKILLS/ CERTIFICATES

- **Programming Languages:** Python, SQL, NoSQL (MySQL, Neo4j), VBA
- **Data Management & Engineering:** ETL Development, Data Modeling, Data Warehousing, Prefect, Databricks
- **Visualization & Analysis:** Power BI, Tableau, Apache Superset, Microsoft Excel, Statistical Modelling, Looker, GCP
- **Tools & Automation:** Power Automate, Power Apps, JIRA, GitHub, VS Code, SQL Server Management Studio
- **Certifications:** Azure Data Fundamentals, Azure Fundamentals, IBM Data Engineering (ongoing)