SANCHI GUPTA

● United States | ✉ gupta.sanch99@gmail.com | ☎ +1 617 251 5460 | ⌾GitHub | 🔗LinkedIn | 🌐PortFolio

SUMMARY

Data Analyst with 2+ years' experience in SQL, Python, R, Tableau, and Power BI (PL-300 certified). Skilled in data modeling, predictive analytics, and dashboarding. Strong background in logistics and operations, partnering with leaders to define KPIs and drive continuous improvement

WORK EXPERIENCE

Data Analyst Intern | Allagash Brewing Company   01/2025 - 03/2025
Boston, MA
- Developed a real-time truck recommender leveraging weather and temperature data to minimize spoilage
- Applied clustering and predictive modeling techniques to identify demand patterns and improve delivery routing strategy
- Designed and maintained interactive Power BI dashboards to monitor shipping trends, costs, and performance metrics
- Partnered with operations leadership to deliver insights supporting logistics decisions and continuous improvement

Data Analyst | Falcon Cables   07/2022 - 08/2023
Delhi, India
- Analyzed sales data to identify trends and customer preferences, increasing marketing efficiency by 7%
- Optimized inventory management with data-driven insights and interactive Power BI dashboards
- Partnered with business teams to translate KPIs into visualizations and develop dashboards aligned with strategic goals

HR Analyst | BimSrv LLP   07/2021 - 06/2022
Delhi, India
- Analyzed HR data including attendance, turnover, and recruitment metrics to drive strategic decisions
- Built interactive Excel dashboards using advanced formulas and pivot tables for real-time HR insights
- Created KPI dashboards to track hiring efficiency, compensation, time-to-fill, and departmental performance metrics

PROJECTS

AI-Powered Text-to-SQL Chatbot for University Database Querying
Tools used: OpenAI API, LangChain, OpenShift, Docker
- Improved response accuracy by 20% in an NLP chatbot using OpenAI, LangChain, and SQL generation
- Applied text mining and SQL generation on unstructured chatbot queries
- Deployed resources on OpenShift and configured APIs with FastAPI for robust backend integration

Chicago Traffic Crash Analysis
Tools used: Azure Blob Storage, Databricks (PySpark), Snowflake, SQL, Tableau
- Built an ETL pipeline to ingest, clean, and merge 2M+ records using PySpark, with data sourced from Azure Blob Storage
- Conducted EDA to uncover trends in crash severity, time of day, lighting conditions, and driver behavior using Spark SQL
- Enforced schema and data quality standards before loading into Snowflake to support reliable, well-managed data solutions
- Designed interactive Tableau dashboards to analyze crash trends, enhancing city traffic reporting and safety insights

Emergency Care Analytics Dashboard (Healthcare)
Tools used: Power BI, DAX, Power Query, Google BigQuery
- Connected Power BI to Google BigQuery and built an ETL pipeline using Power Query for scalable data access
- Developed DAX measures to calculate patient wait times, admission ratios, and departmental performance metrics
- Designed an interactive dashboard to visualize patient flow, wait time trends, and referral patterns across departments

A/B Testing on Simulated Clickstream Data for CTR Comparison
Tools used: Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn)
- Simulated 200K+ user sessions with real-world data issues (nulls, outliers, duplicates)
- Cleaned and analyzed click behavior to compare CTRs between control and experimental groups using a one-tailed Z-test
- Published dataset to Kaggle for reproducibility and public exploration

EDUCATION

Northeastern University, Boston, MA   09/2023 – 03/2025
Master of Analytics (STEM-Designated); GPA: 3.97/ 4.00

Guru Gobind Singh Indraprastha University, Delhi, India   08/2017 – 05/2020
Bachelor of Business Administration; CGPA: 3.23/ 4.00

TECHNICAL SKILLS

SQL, Python, R, A/B Testing, Hypothesis Testing, LangChain, Tableau, Power BI, Excel (Advanced: Formulas, Pivot Tables, VLOOKUP, Data Cleaning), PySpark, Databricks, Snowflake, Google BigQuery, AWS, Git, Azure

CERTIFICATIONS

Microsoft Certified: Power BI Data Analyst Associate (PL-300), Microsoft, 2025