

SANCHI GUPTA

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SUMMARY

Data Analyst with 2+ years of experience transforming complex datasets into actionable insights using Power BI, Tableau, SQL, and Excel. Skilled in forecasting, KPI development, and interactive dashboarding to support strategic decision-making. Collaborative team player with a focus on delivering business value through clear, data-driven storytelling

WORK EXPERIENCE

Data Analyst Intern - Capstone Project | Allagash Brewing Company 01/2025 - 03/2025
Boston, MA

- Developed a real-time truck recommender using weather and temperature data to reduce spoilage
- Applied DBSCAN clustering to identify high-demand zones, improving delivery prioritization and routing strategy
- Built a Power BI dashboard to track shipping trends, costs, and performance
- Collaborated with operations teams to implement insights into logistics planning and participated in business reviews

Data Analyst | Falcon Cables 07/2022 - 08/2023
New 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
- Analyzed production and demand patterns, improving resource allocation accuracy by 8%

HR Analyst | BimSrv LLP 07/2021 - 06/2022
New 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, 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
- Implemented a microservices architecture with cross-functional teams and containerized services using Docker
- 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 validation and data normalization before storing transformed data in Snowflake for optimized querying
- 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; GPA: 3.97/ 4.00

Relevant Courses: Predictive Analytics, Data Mining, Database Management, AI Technologies, Data Visualization, Big Data

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

Relevant Courses: Business Analytics, Computer Applications, Project Management

TECHNICAL SKILLS

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