ANMOL GUPTA

Data Analyst | Python · SQL · Machine Learning · Business Intelligence

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PROFESSIONAL SUMMARY

Results-driven Data Analyst with 5+ years of hands-on exposure to business data, combining 4 years of managing real-world operations (inventory, vendor analysis, P&L) with dedicated self-study in Python, SQL, machine learning, and ETL pipeline engineering. Demonstrated ability to build end-to-end analytics workflows — from raw multi-GB datasets to predictive ML applications and executive-ready dashboards. Adept at translating complex data into clear business insights that drive decision-making.

TECHNICAL SKILLS

Languages: Python, SQL (MySQL), JavaScript, C++
Data & ML Libraries: Pandas, NumPy, Scikit-learn, XGBoost, Matplotlib, Seaborn
Data Engineering: ETL Pipeline Development, SQLAlchemy, Chunk-Based Ingestion, Data Cleaning & Transformation
Databases: MySQL, SQL (Joins, Aggregations, Window Functions)
Visualization: Power BI, Matplotlib, Seaborn, Streamlit
Tools & Platforms: Microsoft Excel (Advanced), Jupyter Notebook, VS Code, Git & GitHub, Tally ERP
ML Techniques: Classification, Feature Engineering, Hypothesis Testing, EDA, Model Evaluation

PROJECTS

Credit Risk Modeling System | Python · Scikit-learn · XGBoost · Streamlit · Poetry · Joblib
github.com/anmolguptanpj/Credit_risk_analysis_-_ml_model

- Built a production-ready ML pipeline on the German Credit Dataset; trained and benchmarked 4 classifiers (XGBoost 67%, Extra Trees 64%, Random Forest 62%, Decision Tree 58%) and selected the best model based on accuracy and business risk tolerance.
- Engineered and exported 5 LabelEncoder artifacts (Sex, Housing, Saving Accounts, Checking Account, Target) as reusable .pkl files, enabling consistent preprocessing in both training and live inference.
- Conducted in-depth EDA using violin plots, scatter plots, heatmaps, histograms, and box plots to surface behavioral risk patterns by age, gender, credit amount, and loan duration.
- Deployed a fully functional Streamlit web app (app.py) with real-time input validation and instant Good/Bad risk prediction; managed dependencies via Poetry (pyproject.toml) for reproducible builds.
- Structured the project with professional Python packaging conventions — .gitignore, poetry.lock, separated notebook vs. production code — demonstrating software engineering best practices.

Vendor Performance Analysis & ETL Pipeline | Python · SQLAlchemy · Pandas · NumPy · Matplotlib · Seaborn · GDown · SQL
github.com/anmolguptanpj/Vendor_performance_analysis

- Architected a scalable ETL pipeline to ingest, clean, and analyze multi-source vendor/inventory datasets exceeding 2 GB; implemented chunk-based loading to prevent DB corruption and optimize RAM.
- Automated data extraction from Google Drive via GDown, structured CSVs into a relational SQL database, and built reusable ingestion scripts reducing manual processing time significantly.
- Performed advanced SQL analysis (JOINs, aggregations, CTEs) to derive KPIs: total vendor sales, purchase concentration, profit margins, and stock turnover ratios across 100+ vendors.
- Discovered that top 10 vendors drove 66% of annual purchases yet maintained low profit margins despite high stock turnover — insight used to recommend vendor diversification strategy.
- Conducted hypothesis testing comparing profitability of high-performing vs. low-performing vendors; identified low-volume vendors with superior margins as strategic growth opportunities.
- Delivered 15+ data visualizations and dashboards communicating actionable business intelligence on bulk purchase impact, brand marketing gaps, and vendor concentration risk.

EXPERIENCE

Business Operations Manager & Data Analyst (Self-Managed)

Independent Business | Feb 2021 – Mar 2025 | 4 Years

- Managed end-to-end business operations including inventory control, stock movement tracking, vendor payments, cash flow management, and profit/loss analysis using Excel and Tally ERP.
- Built monthly and annual P&L reports; identified purchasing inefficiencies and reduced excess stock by analyzing turnover rates and demand patterns — directly improving operational margins.
- Performed data-driven forecasting for inventory replenishment, reducing stockouts and overstock situations through trend analysis and historical sales data.
- Developed hands-on expertise in structured business data, financial reporting, and operational analytics — skills directly applicable to enterprise data analyst roles.

Audit & Financial Data Analyst (Internship)

Audit Firm | 2017 | 3 months

- Gained early-career exposure to digital accounting systems and financial data workflows using Tally.
- Assisted in auditing business transactions, reconciling records, and verifying financial data accuracy.

EDUCATION

Bachelor of Computer Applications (BCA)

Indira Gandhi National Open University (IGNOU) | 2025 – Present | Distance Education

KEY STRENGTHS

- Business Domain Expertise: 5+ years working with real financial, inventory, and vendor data — provides rare business context to technical data analysis work.
- End-to-End Ownership: Independently built complete analytics projects from data ingestion through ML modeling to deployment — demonstrates full-stack analyst capability.
- Self-Directed Learner: Transitioned from business operations to technical data analytics through structured self-study, demonstrating adaptability and initiative.
- Communication: Skilled at translating quantitative findings into visual narratives and actionable business recommendations for non-technical stakeholders.