

MD. FURQAN

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SUMMARY

Data Analyst with 4+ years of experience delivering analytics and decision support across insurance, consulting, and enterprise environments. Experience using SQL, Python, Power BI, Snowflake, and Amazon Redshift to check large datasets (4M+ records), perform exploratory analysis, data validation, and KPI reporting, and support pricing, risk, and operational decisions. Regularly partners with pricing, actuarial, and operations teams to translate business questions into clear insights, standardized metrics, and executive dashboards.

PROFESSIONAL EXPERIENCE

Data Analyst | Liberty Mutual | USA

Aug 2025 – Present

- Executed end-to-end analytical workflows using SQL on Snowflake and Amazon Redshift to analyze policy, claims, and customer datasets (4M+ records), supporting executive reporting and underwriting decisions.
- Built and maintained Power BI dashboards using DAX, Power Query, and semantic models to track risk, loss ratios, and underwriting KPIs across 12 insurance products, enabling faster leadership reviews.
- Conducted exploratory data analysis (EDA) and trend analysis on quarterly and monthly claim data, identifying loss drivers and regional performance patterns used in 3+ pricing and underwriting reviews per year.
- Automated data quality checks and reconciliation routines using Python, detecting 1,800+ data inconsistencies per quarter and reducing manual validation effort by 120 analyst hours annually.
- Delivered ad-hoc and recurring SQL analyses for pricing, actuarial with operations teams, supporting 10–15 analytical requests per quarter and enabling timely business decisions.
- Partnered with data engineering teams to consume AWS-hosted datasets (S3, Redshift) and align curated tables with BI models, stabilizing 25+ recurring executive and operational reports.
- Led KPI definition and metric standardization efforts, onboarding 2 junior analysts and improving consistency across 20+ dashboards and reports consumed by cross-functional stakeholders.

Information Technology Intern | California Department of Public Health | USA

Feb 2025 – May 2025

- Facilitated analytics and reporting workflows by developing Python scripts to clean, transform, and validate recurring datasets, processing 12–18 inbound files per week.
- Authored reusable SQL queries on PostgreSQL and Azure SQL databases to prepare structured datasets for weekly and monthly operational reporting.
- Performed data validation and reconciliation checks across 10+ datasets, identifying recurring data issues and improving reliability of downstream reports.
- Documented data definitions, transformation logic, and validation rules to support consistent dataset interpretation across analytics workflows, referenced during team handoffs and ongoing maintenance by 5+ analysts.

Data Analyst | KPMG | India

May 2020 – Aug 2023

- Analyzed financial, audit, and compliance datasets using advanced SQL (joins, CTEs, window functions) on transactional tables containing 6M+ records, supporting advisory and audit engagements for enterprise clients.
- Developed Power BI and Excel dashboards with calculated measures and standardized layouts, delivering 30+ client-facing reports supporting audit fieldwork and recurring regulatory submission cycles.
- Automated data cleansing, normalization, and reconciliation using Python, eliminating 200+ hours per year of repetitive manual data preparation across recurring analytics workflows.
- Identified financial variances and anomalies through SQL-based multi-period comparisons across ledger and operational datasets, producing 90+ audit exceptions reviewed by audit managers and compliance leads.
- Created and maintained source-to-report mappings, metric definitions, and transformation logic, improving transparency and reusability across analytics deliverables.
- Assembled analytical review materials using SQL outputs and Power BI visuals, supporting 12+ client review meetings involving audit managers, compliance teams, and finance stakeholders.
- Optimized SQL query logic and BI refresh workflows to handle increasing data volumes, stabilizing execution across 20+ scheduled reporting jobs with fixed delivery timelines.
- Conducted analytical quality assurance by validating SQL outputs, dashboard calculations, and documentation artifacts for a 7-member analytics team delivering concurrent audit engagements.

TECHNICAL SKILLS

- Programming & Query Languages:** Python, SQL
- Data Analysis & Analytics Techniques:** Exploratory Data Analysis (EDA), data profiling, data validation, data reconciliation, anomaly detection, ad-hoc analysis, root-cause analysis, trend analysis
- Business Intelligence & Visualization:** Power BI (DAX, Power Query, semantic models, data modeling), Tableau, Looker, Looker Studio, executive dashboards, self-service BI, data storytelling
- Data Manipulation & Automation:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebooks, automation scripting
- Databases & Data Warehousing:** Snowflake, Amazon Redshift, Azure SQL Database, Azure Synapse Analytics, Google BigQuery
- Cloud Analytics Platforms:** AWS (S3, Athena), Azure (Azure SQL Database, Synapse Analytics)
- Analytics & Decision Support:** KPI definition and tracking, business metrics, variance analysis, forecasting support, cohort analysis, funnel analysis, A/B testing analysis support, pricing and risk analytics
- Data Modeling & Governance:** Star schema, snowflake schema, metric definitions, source-to-report mappings, data quality checks
- Tools & Methodologies:** Git, GitHub, Agile, Scrum

EDUCATION

Master of Science in Computer Science
California State University

Aug 2023 – May 2025
Los Angeles, CA