

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