

Pranav Murali | Data & BI Analyst

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SUMMARY

Data Business Analyst with 4+ years of experience supporting healthcare, financial, and SaaS organizations across India and the United States. Strong expertise translating business requirements into SQL-driven analytics, operational dashboards, and automated reporting solutions for executive and operational decision-making. Hands-on experience working with datasets exceeding 50M records, enabling KPI tracking, utilization analysis, and performance monitoring while reducing manual reporting by 8-12 hours per week. Proven ability to collaborate with business stakeholders, product owners, and data engineering teams to define metrics, validate pipelines, and ensure reporting accuracy. Skilled in Python, SQL, Power BI, and cloud-hosted analytics environments supporting batch processing, data validation, and scalable reporting. Known for structured problem solving, documentation discipline, and delivering analytics that are reliable, auditable, and aligned with US enterprise data governance and compliance standards.

TECHNICAL SKILLS

Data Analysis & Business Analytics: Business Requirements Gathering, KPI Definition, Metric Standardization, Trend Analysis, Variance Analysis, Root Cause Analysis — Converted business problems into measurable insights supporting weekly, monthly, and quarterly reporting for 50+ stakeholders across healthcare and finance teams.

SQL & Data Querying: SQL, Complex Joins, Subqueries, Window Functions, CTEs, Query Optimization — Analyzed and optimized datasets ranging from 5M to 50M+ rows, enabling high-performance analytics, reconciliation checks, and repeatable reporting workflows.

Python & Data Processing: Python, Pandas, NumPy, Data Cleaning, Data Transformation — Built reusable scripts processing 2M-8M records per run, reducing spreadsheet dependency and improving data preparation efficiency across recurring reporting cycles.

Business Intelligence & Visualization: Power BI, DAX, Power Query, Data Modeling, Dashboard Design — Designed and maintained 25+ production dashboards used by 100+ business users, delivering governed metrics with refresh times under 30 minutes.

Data Pipelines & ETL Collaboration: Batch Processing, ETL Validation, Data Reconciliation, Data Quality Checks — Partnered with engineering teams to validate daily and monthly batch loads, monitoring row counts, schema drift, and load completeness to reduce downstream reporting issues.

Healthcare & Financial Analytics: Claims Analytics, Utilization Reporting, Financial Performance Tracking — Supported healthcare claims and finance datasets by validating measures, tracking utilization trends, and ensuring audit-ready reporting.

Cloud & Analytics Environment: AWS (S3, EC2), Cloud-Based Reporting Environments — Worked within cloud-hosted analytics platforms supporting secure data access, scheduled refreshes, and enterprise-scale reporting.

Version Control & Collaboration: Git, Change Tracking, Documentation — Managed SQL and Python assets using version control, improving traceability and reducing production rollback incidents.

Reporting Operations & Stakeholder Support: Executive Reporting, Ad-Hoc Analysis, Data Lineage, Documentation — Delivered executive-ready insights and maintained metric documentation, reducing clarification cycles during audits and leadership reviews.

EXPERIENCE

Data & BI Analyst | UnitedHealth Group | USA

Jun 2025 – Current

- Collaborated with healthcare operations teams to translate claims and utilization requirements into SQL-based analytical datasets exceeding 30M records, enabling standardized weekly reporting and reducing recurring ad-hoc data requests by 18% through reusable dashboards.
- Developed Power BI dashboards integrating claims, provider, and member data for 60+ business users, reducing manual Excel reporting by 10 hours per week through scheduled refreshes, governed DAX measures, and consistent KPI definitions.
- Analyzed multi-year healthcare datasets using SQL and Python to identify trend variances and data inconsistencies, improving reporting accuracy and preventing reconciliation issues during monthly utilization and financial review cycles.
- Implemented structured data validation checks across batch pipelines, coordinating with data engineering teams to monitor load completeness, row-count thresholds, and schema stability, reducing recurring data defects observed in stakeholder reviews.
- Documented metric definitions, data lineage, and dashboard logic, improving onboarding efficiency for new analysts and reducing clarification cycles during audits and compliance-driven reporting requests.
- Supported leadership presentations by summarizing dashboard outputs into concise insights, enabling faster operational decisions across claims processing and utilization management teams without modifying governed source data.

BI Analyst | Brownframe Technologies | India

Feb 2022 – Jul 2023

- Designed SQL-based analytical views consolidating finance and operations data from multiple systems, processing 20M+ rows per reporting cycle and enabling standardized KPI tracking across five business units.
- Constructed Power BI reports with optimized data models and calculated measures for 40+ stakeholders, reducing report refresh time from over 60 minutes to under 25 minutes through query tuning and model optimization.
- Coordinated with ETL teams to validate daily batch loads, using reconciliation checks to improve data consistency across source and reporting systems.
- Automated recurring data preparation tasks using Python and Pandas, eliminating manual spreadsheet workflows and saving approximately 8 analyst hours per week during monthly reporting cycles.
- Performed root-cause analysis on KPI variances by tracing data lineage and validating transformation logic, improving confidence in executive dashboards used for quarterly planning.
- Maintained version-controlled analytics assets using Git, supporting collaborative development and reducing production rollback incidents through controlled change tracking.

Data Analyst | Sage Softech | India

Jan 2020 – Jan 2022

- Gathered reporting requirements from finance and operations teams, translating business questions into SQL queries across transactional databases containing 10M+ records to support monthly and quarterly performance reviews.
- Produced standardized Excel and Power BI reports used by management teams, reducing manual data compilation effort by approximately 30% through reusable queries and consistent metric definitions.
- Validated incoming datasets using row-level checks and aggregation comparisons, improving reporting accuracy and reducing rework during recurring reporting cycles.
- Supported senior analysts by preparing cleaned datasets using Python scripts, enabling faster exploratory analysis and improving turnaround time for ad-hoc stakeholder requests.
- Ensured timely report refreshes and dataset updates, minimizing last-minute issues for executive reviews.
- Documented reporting logic and assumptions for shared analytics assets, reducing follow-up clarification requests and improving transparency across business stakeholders.

PROJECTS

Healthcare Claims Utilization Dashboard

Built Power BI dashboards analyzing 25M+ claims records, enabling weekly utilization monitoring and reducing manual reporting by 10 hours per week through automated refresh and validated measures.

Financial Performance Reporting Automation

Developed Python data workflows processing 6M+ records per cycle, replacing spreadsheets and improving month-end close consistency.

Data Quality Validation Framework

Implemented SQL-based reconciliation checks across batch pipelines, identifying load variances early and reducing reporting defects observed during stakeholder and leadership reviews.

EDUCATION

Masters in Computer Science | Illinois Institute of Technology, USA

May 2025

Bachelors in Information Science | Jain University, India

Jun 2022