Sumit Suresh Madhav | Data Analyst

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SUMMARY

Data Analyst with over 8 years of experience turning complex data into actionable insights that drive strategic decision-making. Proven track record of leveraging advanced analytics, statistical modeling, and data visualization to optimize business processes, enhance performance, and identify growth opportunities. Highly skilled in SQL, Python, Tableau, and Excel, with deep expertise in data mining, A/B testing, and KPI development. Adept at collaborating across cross-functional teams to deliver high-impact solutions and improve organizational outcomes.

SKILLS

Data Analysis & Statistical Methods: Data Cleaning & Wrangling, Statistical Analysis, Hypothesis Testing, A/B Testing, Regression Modeling, Time Series Analysis, Forecasting, Root Cause Analysis, Exploratory Data Analysis (EDA)
Programming & Query Languages: SQL (MySQL, PostgreSQL, MS SQL Server), Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn), R (ggplot2, dplyr, tidyverse, caret), DAX
Data Visualization & Reporting: Tableau, Power BI, Looker, QlikView, Excel (PivotTables, Power Query, VLOOKUP, Macros), Data Storytelling, Dashboard Development, Automated Reporting
Data Engineering & ETL: Airflow, Alteryx, Informatica, dbt, Apache Spark, Hadoop, Data Pipeline Design, Data Integration
Data Warehousing & Databases: Snowflake, Amazon Redshift, Azure Synapse, Teradata, Oracle, NoSQL (MongoDB, Cassandra)
Business Intelligence & Decision Support: KPI Design, Performance Metrics, Business Requirements Gathering, Decision Support Systems, Stakeholder Reporting, Cross-functional Collaboration
Machine Learning: Scikit-learn, XGBoost, Clustering, Classification, Feature Engineering, Model Evaluation Metrics
Workflow & Agile Collaboration: Agile/Scrum Methodologies, Sprint Planning, Jira, Confluence, Git/GitHub, Stakeholder Communication
Cloud & DevOps Integration: AWS (S3, Athena, Lambda, Redshift), Microsoft Azure, CI/CD Pipelines

EXPERIENCE

Data Analyst, JPMorgan Chase & Co.   **Apr 2023 – Present**
- Designed and maintained automated data pipelines using SQL and Python to process over 12 million daily financial transactions, supporting end-of-day reporting across credit, lending, and asset management units.
- Developed Tableau dashboards to track intraday exposure, trade volume, and margin movement, reducing reliance on static Excel reports by over 90% and increasing access speed for trading managers.
- Partnered with compliance teams to create exception reports identifying anomalous trades, resulting in the early flagging of 3–5 potential violations per quarter that previously went undetected.
- Optimized SQL scripts used in post-trade data reconciliation by introducing indexing and sub-query restructuring, reducing runtime by 40% and improving reliability for the daily batch job.
- Conducted correlation analysis on portfolio risk factors across multiple product lines (e.g., equities, fixed income), providing insights that shaped quarterly risk management policy updates.
- Documented data logic, transformation steps, and governance protocols in Confluence, ensuring audit readiness and reducing onboarding time for new analysts by approximately.

Data Analyst, PNC Financial Services   **Feb 2022 – Mar 2023**
- Consolidated customer, transaction, and credit data from 7 different internal systems using PostgreSQL and Python, improving the integrity of monthly credit risk reports and decreasing reconciliation time by 30%.
- Built time-series forecasting models using ARIMA and Prophet in Python to project expected default rates, resulting in a forecast accuracy improvement of 18% and more informed capital planning.
- Designed interactive Power BI dashboards for the retail lending team that enabled daily monitoring of loan approval cycle times, which helped reduce average processing time by 2.4 days.
- Conducted A/B tests on customer segmentation strategies to evaluate the impact on cross-sell success rates, leading to a 12% increase in uptake of bundled financial products.
- Created and maintained automated reporting pipelines for senior leadership, replacing manual Excel workflows and saving the reporting team more than 25 hours per month.
- Collaborated with business analysts to define KPI logic and validation rules, increasing consistency across weekly scorecards and improving stakeholder trust in operational metrics.

Data Analyst, Humana   **Apr 2019 – Jun 2021**
- Integrated claims, pharmacy, and clinical visit data across multiple EHR systems into unified tables for risk stratification models, increasing data readiness and reducing preprocessing time by 35%.
- Developed logistic regression models in R to predict hospital readmission within 30 days, enabling 9% more accurate identification of high-risk members for early outreach programs.
- Created parameterized Tableau dashboards to track plan utilization, allowing product managers to identify underused services and adjust plan designs with data-backed evidence.
- Applied de-identification techniques to maintain HIPAA compliance, masking PII and enabling secure sharing of data across care teams and third-party vendors.
- Created detailed documentation of SQL transformation logic and data lineage to support CMS audit requirements and facilitate internal data governance reviews.

Data Analyst, Tenet Healthcare   **Feb 2016 – Dec 2018**
- Monitored patient discharge patterns across 60+ hospital facilities, uncovering bottlenecks in transition-of-care processes that were addressed to reduce delays by 12% year over year.
- Led the development of ETL jobs in SQL Server to consolidate patient vitals and procedure records, cutting nightly data refresh times from 8 hours to under 2 hours.
- Performed root cause analysis on repeated readmissions within a 30-day window, contributing findings that informed changes to discharge planning protocols and yielded a 5% reduction in unplanned returns.
- Built and validated data quality checks for billing systems, detecting anomalies in procedure codes and reducing claim rejection rates by 11% across two fiscal cycles.
- Developed visual reports for physician scheduling metrics and staffing ratios using Excel and VBA, aiding operational planning and decreasing overtime costs.

SQL Developer, Cybage Software   **Jan 2014 – Sep 2014**
- Created optimized stored procedures for 3 large-scale financial services clients, reducing SQL execution times by up to 45% through schema normalization and query tuning.
- Assisted in the development and deployment of ETL pipelines using SSIS to support daily batch updates to client-facing reporting databases, reducing refresh delays by over 2 hours.
- Validated over 50 complex database views and joins used in legacy BI dashboards, identifying logic flaws that were corrected before a major product release.
- Maintained SQL Server Agent jobs and monitored error logs to ensure 99.9% uptime of scheduled database refresh tasks.
- Created data migration scripts that successfully moved over 15 million records during a legacy system decommissioning, completing the task within a 48-hour window and without data loss.

EDUCATION

Masters in Information System   **Dec 2015**
South University, Tampa, FL
Bachelors in Computer Science   **May 2013**
Mumbai University, India