Suyog Mainali

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SUMMARY

Senior Data Analyst with 5+ years of SQL, Python, Dash, and BI expertise (Tableau, Power BI, Looker). User statistics, audience groups, retention trends, and revenue tracking are my areas. I create dashboards, auto reports, and narratives from numbers for leaders. I help global teams and senior personnel develop strategy and user engagement.

EDUCATION

William & Mary, Raymond A. Mason School of Business, Williamsburg, VA, USA   August 2025 - May 2026
Master of Science, Business Analytics

Vellore Institute of Technology (VIT), Vellore, India   August 2018 - May 2022
Bachelors of Technology, Computer Science Engineering

PROFESSIONAL EXPERIENCE

Zakipoint Health, Sanepa, Lalitpur, Nepal   July 2020 - August 2025
Senior Database & Data Analyst

- Utilized SQL, Python, and Spark to integrate claims, eligibility, provider demographics, and clinical EHR datasets from various payer systems, ensuring HIPAA compliance and reducing manual aggregation time by 70%, resulting in daily executive reports.
- Improved cost and outcome forecast accuracy by 38% using advanced risk adjustment and HEDIS quality measure frameworks, including feature engineering, gradient boosting, and time-series modeling with scikit-learn, TensorFlow, and Keras. This enabled targeted care interventions and reduced avoidable claims.
- Created automated population health dashboards and value-based care reports using Tableau, Power BI, and Dash, analyzing cost trends, adherence rates, and readmission probabilities to inform strategic planning for 11 payer-provider networks, resulting in a 15% increase in quality metric compliance.
- Implemented Python-based anomaly detection systems to detect outliers in utilization claims, suspected fraud, waste, and abuse patterns. Integrated real-time alerts into operational workflows via Slack and email, reducing investigation time from 5 days to 8 hours and preventing $2M revenue leakage.
- Collaborated with clinicians, epidemiologists, and product leads to create regulatory-compliant action plans using Hive, Impala, and MySQL tuning. Developed reusable analytics playbooks, reducing onboarding time for new data scientists by 50%.
- Led the transition from legacy reporting to production-grade machine learning pipelines, implementing Git-based version control, Jenkins CI/CD deployments, and Jira-driven sprint planning. This resulted in weekly model iterations, continuous model drift monitoring, and 99.8% pipeline uptime in clinical settings.

Om Hospital & Research Centre, Kathmandu, Nepal   April 2018 - July 2020
Database Manager (Remote Full-Time)

- Shifted old hospital records to DHIS2 so staff could track health data live and get quicker access to patient info
- Used R and Python for predictive modeling on outbreaks, which lifted emergency readiness by 20%
- Set up Tableau and Power BI boards to watch wait times and daily flow, cutting delays by 25%
- Trained over 500 staff on data tools, which helped the hospital move toward daily use of data in decisions

CORE SKILLS & COMPETENCIES

- **SQL, Python, R, MySQL, Airflow, dbt, Dash** – building ETL flows, predictive models, and automation for large datasets.
- **Tableau, Power BI, Looker, Excel** – creating interactive dashboards, real-time KPI boards, and automated reports for leadership.
- **User segmentation, retention tracking, revenue trend checks, anomaly detection** – turning raw data into clear insights that guide product and business moves.

PROFESSIONAL CERTIFICATIONS

- Data Analysis with R Specialization - Duke University, 2025
- Google Data Analytics - Google, 2025