Suyog Mainali

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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, ensuring HIPAA compliance and reducing manual aggregation time by **70%**.
- Improved forecast accuracy by **38%** using advanced risk adjustment and HEDIS quality measure frameworks with scikit-learn, TensorFlow, and Keras.
- Created automated dashboards and reports with Tableau, Power BI, and Dash, analyzing cost trends, adherence, and readmission probabilities, leading to a **15% increase in quality metric compliance**.
- Led a **10-member team** to design a metrics report dashboard (Python, Dash, MySQL, Elasticsearch) used by **20+ clients**, reducing manual reporting time from **24 hours to 0 minutes** with live filters and downloadable reports.
- Implemented Python-based **anomaly detection** systems, cutting investigation time from 5 days to 8 hours and preventing **$2M revenue leakage**.
- Improved **data quality by 90%** through systematic filtering, cleaning, and validation of client-provided datasets.
- Led the shift to production-grade ML pipelines with Git, Jenkins CI/CD, and Jira-driven sprints, achieving **99.8% uptime** and continuous model drift monitoring in clinical settings.

Technimus, Kathmandu, Nepal April 2024 - August 2025
Senior Data Analyst (Remote Part-Time)

- Built data flows in SQL and Python to pull records for student apps, with Tableau, Power BI, and Dash showing trends in usage and key results
- Cut load time by 45% through MySQL tuning and cross-system checks, which also raised the accuracy of reports for the consultancy users
- Set Python models to spot unusual user moves and system faults early, giving clients stronger control of risks

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.

PROJECTS

Multi-Tenant Restaurant Management System February 2025 - Present

Inventory & POS Automation March 2024 - Present

PROFESSIONAL CERTIFICATIONS

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