

BABURAM ADHIKARI

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PROFESSIONAL SUMMARY

Data Analyst with hands-on experience delivering business insights through SQL, Python, and BI dashboards across operational, customer, and financial datasets. IBM Data Analyst certified and currently completing an MSc in Computer Science in Canada, with proven results: improved data quality by 30%, reduced manual reporting time by 20%, and built automated ETL workflows that streamlined stakeholder reporting. Strong background in exploratory data analysis, KPI tracking, data visualization, anomaly detection, and translating complex data into clear, decision-ready insights for technical and non-technical audiences.

TECHNICAL SKILLS

- **Programming & Querying:** Python (Pandas, NumPy, SciPy), SQL, R, Advanced Excel, VBA
- **Data Analytics:** Data Cleaning, ETL Pipelines, Exploratory Data Analysis (EDA), Feature Engineering, KPI Tracking, Anomaly Detection, Forecasting, Trend Analysis
- **BI & Visualization:** Power BI, Tableau, Looker Studio, Matplotlib, Seaborn, Dashboard Design, Executive Reporting, Data Storytelling
- **Databases:** PostgreSQL, MySQL, MongoDB, SQL Server — joins, aggregations, window functions, query optimization
- **Machine Learning:** Regression, Classification, Clustering, Random Forest, XGBoost, Isolation Forest, Scikit-learn, NLP
- **Cloud & Tools:** Microsoft Azure, Docker, Git/GitHub, Jupyter, FastAPI, Flask, Jira, Agile/Scrum

PROFESSIONAL EXPERIENCE

Data Analyst — Leapfrog Technology, Inc.

Feb 2024 – Nov 2024

Kathmandu, Nepal (Hybrid)

- Cleaned, validated, and performed EDA on 500K+ records using Python (Pandas, NumPy) and SQL, improving data quality and analysis accuracy by ~30%.
- Designed and deployed interactive Power BI dashboards and automated Matplotlib visualizations, reducing manual reporting effort by 20% and accelerating stakeholder access to KPIs.
- Built and maintained end-to-end ETL workflows covering ingestion, transformation, feature engineering, and pipeline monitoring, producing a more reliable and scalable analytics layer.
- Wrote complex SQL queries (joins, CTEs, window functions) to support ad-hoc business questions, trend analysis, and recurring reporting for cross-functional teams.
- Partnered with product, engineering, and operations stakeholders to translate business problems into measurable analytics deliverables and communicate findings in plain language.

Data & Business Analyst (Analytics Support) — APAR Nepal

Sep 2022 – Dec 2023

Kathmandu, Nepal

- Assisted in analyzing operational and customer datasets using SQL and Excel to surface usage trends, conversion drop-offs, and workflow bottlenecks.
- Built Excel and Power BI dashboards tracking website performance, user engagement, and key operational KPIs for management review.
- Automated recurring reporting workflows using Excel formulas, pivot tables, and SQL scripts, reducing weekly manual reporting effort by ~25%.
- Conducted exploratory data analysis on user behavior and product data to generate actionable insights that informed feature and UX decisions.
- Supported lightweight ETL tasks — data extraction from internal systems, cleaning, deduplication, and consolidation into structured reporting tables.
- Collaborated with technical and non-technical stakeholders to gather reporting requirements, define KPIs, and present findings through clear visual summaries.

KEY ANALYTICS PROJECTS

Bank Transaction Fraud Analytics

- Performed full EDA on a large-scale banking transaction dataset to identify spending patterns, high-risk segments, and behavioral anomalies.
- Engineered Random Forest, K-Means, and Isolation Forest models for fraud detection, benchmarking precision, recall, and F1 to recommend the best approach.
- Delivered visual fraud-trend summaries and KPI dashboards (Matplotlib, Seaborn) tailored for risk and compliance stakeholders.

E-Commerce Recommendation & Customer Insights — *Published, ICAIII 2026*

- Analyzed the Amazon 2023 e-commerce dataset to extract purchasing behavior, product-affinity patterns, and customer segmentation insights.
- Built a hybrid recommendation system combining collaborative filtering and content-based features; evaluated with Hit Rate@K, Diversity@K, and Novelty.
- Executed extensive data cleaning and ETL: interaction filtering, missing-value treatment, text preprocessing, and user-item matrix construction.

Nepali Sentiment Analysis — NLP Insights

- Cleaned and processed a bi-script (Devanagari and Romanized) Nepali text dataset for large-scale sentiment classification.
- Built a hybrid Transformer + CNN + BiLSTM pipeline achieving 73.88% accuracy and Macro-F1 of 0.737, surfacing customer-opinion trends.

Retinal Image Classification — Predictive Analytics — *Published, SNPD 2025*

- Designed a lightweight CNN to classify four retinal conditions (Cataract, DR, Glaucoma, Normal) with 91.14% precision.
- Conducted rigorous model evaluation using confusion matrices, ROC/AUC, and class-wise performance reporting.

EDUCATION

Master of Science, Computer Science — Algoma University, Sault Ste. Marie, ON *Jan 2025 – Dec 2025*

Relevant Coursework: Data Analytics, Machine Learning, Database Systems, Statistical Methods

CERTIFICATIONS

- IBM Data Analyst Professional Certificate (2025)
- IBM Generative AI: Prompt Engineering
- Microsoft Azure Machine Learning Fundamentals
- Career Essentials in System Administration — Microsoft

AWARDS & RECOGNITION

- Best Engineering Award & First Runner-up — ABU Robocon
- First Place — Journey to Mustang (Robotic Association of Nepal)
- Best Innovative Award (Solar Panel Cleaning) — LOCUS