

Mausam Adhikari

Associate Data Science Manager

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Professional Summary

Data leader with **5+ years** building **analytical data implementations** in a regulated, compliance-heavy domain (financial fraud/AML, Customer 360, Credit Risk) for clients across Nepal and international markets. Lead a **19-person R&D and Fraud Analytics org**. Stack: **Python, PySpark, SQL, AWS, Airflow**.

Core Competencies

- **Leadership & Delivery:** Team & People Management, Client Implementations, Agile/Scrum, Requirements Gathering, Backlog Decomposition, Mentoring
- **Data Engineering:** Python, PySpark, Spark, SQL, ETL/ELT, Data Mapping & Integration, Apache Airflow, Kafka, Batch & Real-Time Processing
- **Cloud & DevOps:** AWS (S3, Lambda, Glue), Docker, Git/GitHub, FastAPI, CI/CD & Databricks/Snowflake exposure
- **ML & AI:** Scikit-learn, TensorFlow, LLMs, Generative AI, Anomaly Detection, Recommendation Systems
- **Analytics & Reporting:** Fraud Detection, AML, Customer 360, Credit Risk Scoring, Tableau, Power BI

Professional Experience

Associate Data Science Manager, ExtensoData (F1soft Group), Kathmandu, Nepal Jul 2026 – Present

- Manage backlog grooming, solution architecture, and research initiation, guiding R&D team members while advising business and product on new research directions through POCs.
- Meet clients directly to scope solutions from their pain points, and support business through RFPs, client presentations, and demonstrations to deliver research products.

Senior Data Scientist, ExtensoData (F1soft Group), Kathmandu, Nepal Jan 2022 – Jul 2026

- Led a **7-member R&D function** and a **12-member Fraud Analytics Scrum team**, coaching and mentoring toward a collaborative, delivery-focused culture.
- Owned **end-to-end client implementations across 4 projects**: requirements discovery, data mapping, ETL design, and production support.
- Built scalable **ETL/data integration pipelines (PySpark, Airflow, AWS, SQL)**, improving processing performance by **50%**; developed **Customer X360** and **Financial Credibility Index (FCI)** capabilities contributing to up to **70% ROI** and **25% risk reduction**.
- Designed **anomaly detection and fraud analytics** solutions strengthening AML capabilities and conducted **NPL analysis** for risk strategy; led **GenAI research and POCs** on LLM architecture, retrieval design, and reliability evaluation.

Data Science Instructor, Broadway Infosys, Kathmandu, Nepal Jan 2023 – Present

- Teach **Python, ML, and SQL** to **100+ students**; lead applied AI/ML projects from problem formulation to deployment.

Early Career: Backend Developer, Uptechsys & Teaching Assistant, Genese Cloud Academy – Kathmandu, Nepal Feb 2021 – Feb 2022

- **Uptechsys** (Feb–Oct 2021): Built FastAPI/Sanic REST APIs using TDD practices.
- **Genese Cloud Academy** (Oct 2021–Feb 2022): delivered AWS/data analytics coursework (Big Data, Hadoop, ML).

Education

Pulchowk Campus, Tribhuvan University, M.Sc. in Computer Systems and Knowledge Engineering Apr 2024 – Jun 2026

- **Research:** Interpretable Model for Anomaly Detection in P2P Financial Transactions – published in the Journal of Advanced College of Engineering and Management (Vol. 12, No. 1, 2026).

Kathmandu Engineering College, Tribhuvan University, B.E. in Computer Engineering Oct 2016 – Sep 2021

Certifications

- **AWS Academy Graduate – ML Foundations** | **TensorFlow for AI/ML/DL** | **Neural Networks & Deep Learning** – DeepLearning.AI