

Aayush Adhikari

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PROFESSIONAL SUMMARY

Computer Engineering graduate with experience in business analysis, SQL, data validation, APIs, functional specifications, project coordination, and cross-functional collaboration. Skilled in gathering and analyzing requirements, translating business needs into functional specifications, analyzing data using SQL and Excel, and investigating system issues through root-cause analysis. Experienced in stakeholder communication, Jira, functional testing, API validation, and supporting technical solution implementation.

SKILLS

Business Analysis: Requirements Gathering, Requirements Analysis, Functional Specifications, Business Requirements Documentation, Process Analysis, Stakeholder Communication, Root Cause Analysis, Functional Testing, Issue Investigation, Project Coordination

Data & Analytics: SQL, Microsoft Excel, Python, Google Analytics, Google Search Console, Data Analysis, Data Validation, Data Reconciliation, Data Profiling

Systems & APIs: REST APIs, API Validation, System Analysis, PostgreSQL, MySQL, AWS Redshift, NoSQL

Project & Collaboration Tools: Jira, Git, GitHub, Agile/Scrum, Test Case Design, Defect Tracking, Issue Tracking

Data Engineering: ETL Pipelines, Data Warehousing, PySpark, Apache Airflow, Prefect, AWS S3, AWS Glue, AWS Athena

PROFESSIONAL EXPERIENCE

Project Lead – Web Development & SEO Strategist

Brand Worth Pvt. Ltd.

January 2026 – Present

Kathmandu, Nepal

- Gathered and analyzed business requirements from 5+ clients, translating business needs into functional specifications, technical requirements, and actionable project deliverables.
- Collaborated with clients, developers, designers, and SEO teams to clarify requirements, define expected functionality, and support solution implementation.
- Created and maintained functional requirements, project documentation, task specifications, and implementation requirements throughout project lifecycles.
- Tracked requirements, tasks, issues, and project progress using Jira while managing deliverables across 3+ concurrent client projects.
- Analyzed website and product performance using Google Analytics, Google Search Console, and Excel to identify trends, performance issues, and opportunities for improvement.
- Investigated client-reported functional and performance issues, performed root-cause analysis, and coordinated with technical teams to implement and verify solutions.

Junior Software Engineer

Sayatri Technologies

November 2024 – January 2025

Kathmandu, Nepal

- Analyzed backend system behavior using SQL queries, APIs, and database records to identify data inconsistencies and functional issues.
- Validated API responses against database records to verify business rules, data accuracy, completeness, and system functionality.
- Performed source-to-target data validation and reconciliation, identifying missing, duplicate, and inconsistent records across multiple data layers.
- Conducted root-cause analysis on system and data issues and collaborated with development and QA teams to troubleshoot defects and verify resolutions.
- Designed and executed test scenarios for backend workflows, validated business logic, debugged failures, and supported regression testing across sprint cycles.
- Improved API and SQL query performance by 30% through query optimization, indexing strategies, and backend profiling.

PROJECTS

E-Commerce Data Warehouse & Business Data Pipeline

- Built and analyzed an ETL pipeline loading transactional order data into a PostgreSQL star-schema warehouse for structured business analysis.
- Used SQL to validate order, customer, and transactional datasets and verify fact and dimension table integrity.
- Performed data-quality analysis to identify duplicate, null, missing, and inconsistent records across staging and warehouse layers.
- Validated incremental data loads through SQL reconciliation queries, achieving 100% row-count accuracy.

Cloud-Based Reddit Data Pipeline

- Built and validated an end-to-end data pipeline ingesting Reddit API data into an AWS S3 data lake.
- Used SQL in Athena and Redshift to analyze and validate dataset completeness, transformation accuracy, and data consistency.
- Validated API outputs and PySpark transformations to confirm schema conformity and field-level accuracy.
- Monitored Apache Airflow workflows, execution logs, retry behavior, and pipeline failures to investigate operational issues.

Incremental Customer Master Data Pipeline

- Analyzed customer data changes using PySpark and hash-based change detection to identify newly inserted and modified records.
- Validated historical customer records using Slowly Changing Dimension Type 2 logic and SQL reconciliation checks.
- Investigated discrepancies across staging, intermediate, and warehouse layers to ensure consistent customer information.

EDUCATION

Bachelor of Engineering in Computer Engineering
Advanced College of Engineering and Management – Tribhuvan University

August 2019 – August 2024
Kathmandu, Nepal

Relevant Coursework: Database Management Systems, Data Warehousing, Distributed Systems, Software Quality Assurance, Data Structures & Algorithms

Higher Secondary Education – Science (+2)
Prasadi Academy

July 2017 – June 2019
Lalitpur, Nepal

CERTIFICATIONS

- Meta Database Engineer Professional Certificate – Meta / Coursera (2024)
- ETL and Data Pipelines with Shell, Airflow, and Kafka – IBM / Coursera (2024)