

# Kallyan Maity

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## Objective

ETL Tester with 3.4 years of experience in validating and optimizing ETL processes to ensure data integrity and deliver high-quality data solutions. Skilled in building automation frameworks for validation and streamlining workflows using Azure Databricks. Proficient in regression, functional, and performance testing, with strong analytical capabilities. A collaborative team player with an ownership mentality, consistently delivering strategic, high-quality solutions that resolve challenges and drive business growth.

## Experience

- Tata Consultancy Services (TCS)**  
ETL Tester  
Project: CIBC Bank USA
- March 2022 - Present

### Key Responsibilities:

- Conducted end-to-end testing of ETL processes, ensuring data extraction, transformation, and loading met quality and performance standards.
- Validated large datasets across source and target systems to ensure accuracy, consistency, and integrity.
- Wrote complex SQL queries for data validation and transformation checks.
- Automated ETL test cases using Python, reducing manual effort and improving efficiency.
- Documented test cases, test plans, and defect reports, ensuring clear communication with development teams.
- Collaborated with business stakeholders to understand data requirements and provide actionable insights.
- Reduced ETL testing time by 25% through automation initiatives.
- Identified and resolved critical data inconsistencies, improving overall data accuracy by 20%.

### Key Achievements:

- Reduced testing cycle time significantly through Python-based automation.
- Improved data accuracy by implementing advanced validation rules.

## Education

- NM Institute of Engineering and Technology**  
Bachelor of Technology  
7.42
- 2020

## Skills

- Python
- SQL
- Azure Databricks
- Excel

## Projects

- Automated Data Validation Framework in Databricks**
    - Conducted validation of ETL workflows for a banking client, ensuring accurate customer transaction data processing.
    - Used SQL and Python scripts to automate validation checks, reducing manual errors and improving efficiency.
    - Designed and implemented regression testing frameworks for continuous validation.
    - Automated the data validation process to compare files stored in ADLS Blob Storage with raw and curated Delta tables in Databricks Zones using Databricks notebooks.
    - Developed scalable, reusable Python and PySpark scripts to perform comprehensive data validations, including row counts, schema validation, data consistency checks, duplicate detection, and data masking verification.
    - Read raw files and Delta tables into Spark DataFrames and applied validation checks to ensure data integrity and compliance with business rules across Zone 1 (raw) and Zone 2 (curated) layers.
    - Improved regression testing efficiency, reduced manual effort, and enabled early detection of data quality issues during ingestion and transformation.