Revolutionizing Loan Data Management
with Data Analytics

CASE STUDY

About Client
Leading Financial
Service Provider

Industry
Finance

Service
Data & Analytics

Business **Need**

The client, a prominent financial service provider, sought a dedicated solution for their data analytics and reporting requirements. The primary objective was to consolidate loan data and generate comprehensive reports for stakeholders. However, the loan data received from various financial service companies presented data quality issues.

To enable effective analytics and reporting, it was crucial to address data deduplication and cleansing. The solution needed to be agile, catering to ad-hoc data requirements promptly. Moreover, the solution was expected to empower the identification of trends within the loan data.

Business **Challenge**

The primary challenge lay in processing billions of records to ensure regulatory compliance and enable effective investigations and surveillance. Complex compliance, investigation, and

surveillance requirements necessitated the correlation of data across multiple silos. Furthermore, the volume of data involved required robust data discovery and analytics capabilities.

Business **Solution**

NSEIT addressed these challenges by delivering a comprehensive solution, including:

1 Building a dedicated data warehouse to consolidate loan data from different financial service companies

2 Establishing a framework for monthly reconciliations of loans to identify data quality issues.

3 Resolving data quality issues in loan data either at the source end or within the Data Warehouse.

4 Implementing NLP-based deduplication functionality at the Data Warehouse level to easily identify unique borrowers and their loans.

5 Developing a framework to fulfill ad-hoc data requirements for obtaining various views of loan data, including types, outstanding details, and tenure.

6 Creating interactive dashboards with row/column level security, enabling multiple stakeholders to access relevant data.

Tech **Stack**

QlikSense | **talend** | **MySQL**

Project **Differentiator**

The solution provided by NSEIT introduced several differentiators:

- Trend analysis of loan data
- Comparative analysis capabilities
- Geographical analysis for enhanced insights

Business **Impact**

The implementation of NSEIT's data analytics solution for loan management had a profound impact on our client's operations. By streamlining their data processes and providing actionable insights, the solution played a pivotal role in enhancing efficiency and decision-making within the organization.

Drastic reduction in turnaround time for obtaining reports

Increased client adoption of the solution

Timely generation of reports

Implementation of interactive dashboards with precise row/column level security, catering to multiple stakeholders

Substantial improvement in data accuracy

About **NSEIT**

NSEIT Limited is a digital native technology company that engineers world-class solutions to help our global customers accelerate their digital transformation journeys. Our key service pillars are Application Modernization, Business Transformation, Data Analytics, Infrastructure &

Cloud Services, and Cybersecurity, through which we create intuitive digital experiences and tangible business impact. For over two decades, our innate drive for excellence has made us the partner of choice for global organizations. At NSEIT, we fuel digital progress.

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