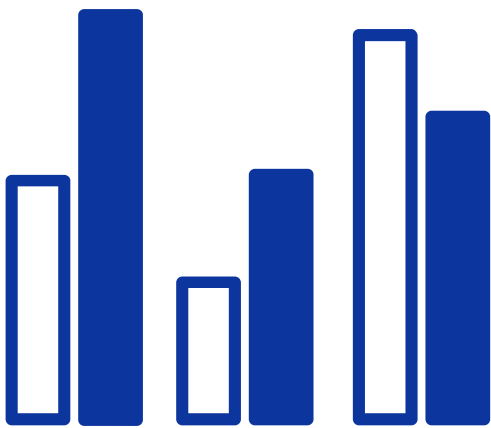# BANK DATA QUALITY MONITORING
# AND ALERTING SYSTEM

(January, 2021 - June, 2021| Sr. Project Manager/Sr.Architect | Glen Allen, VA)

## PROJECT
### BACKGROUND

As data storage and usage regulations become increasingly stringent, the data industry is under pressure to elevate its standards. Robust data governance practices require advanced tools capable of identifying and addressing potential issues to safeguard customer data effectively. With this imperative in mind, the data organization sought tools offering comprehensive assessment and timely reporting of data quality issues.

## PURPOSE

Create a software system to monitor quality of data using defined assessments as metadata, alerting & reporing capability on regular intervals.
The system creates Alerts when data elements in the monitoring space fail any of the screening metrices.
These alerts are used by data governance & other stakeholders to fine tune the rules and processes for data creation, storage and usage.

## RESPONSIBILITIES

- Provide technical leadership and project ownership.
- Lead cross-functional teams through Agile planning, execution and project delivery.
- Stakeholder collaboration and project performance management.
- Provided clear task prioritization and support, ensuring team members had necessary resources for success
- Created insights for senior leadership, and collaborated with partners like product manager's & scrum master to align expectations with roadmaps

## PROJECT
### ENVIRONMENT

- Execution Methodology - Agile Product Oriented Development
- Geo distributed Team
- Key Stakeholders - Data Governanace, Bank Data program, Data Engineering Director
- Technology - AWS RDS ,S3 , Lambda services , SQS/SNS ,Snowflake and Ab Initio suite, Tableau, service now and slack.
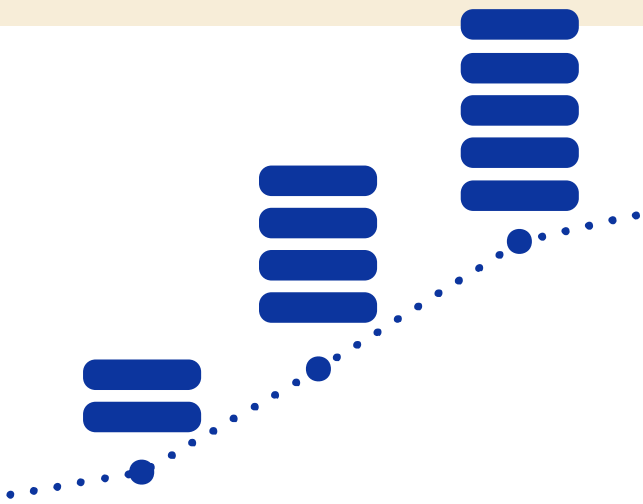
## SUMMARY

3 tiered architecture comprising a metadata management layer, data rules engine and a presentation layer was created. Initial version was tuned and tested with close to 200 rules setup for medium critical tablesin Snowflake data lake. Alerts were closely monitored by the data stewards.

## PROJET LEARNING

Team work in a cross-functional collaborative environment  - project team initially underestimated the complexity of the rules engine, resulting in delays. This problem was solved by partnering with another team and sharing work .This collaboration provided valuable learning opportunities to both the team and stakeholders.