

InsuranceLake on AWS

Quickly implement a Low-Code Data Lake for No-Code Exploratory Data Analysis

Data-driven insurance companies use large consolidated data sets to develop and train machine learning models. These models enable firms to predict customer behavior, assess risk, optimizing pricing, and streamline the underwriting processes. Further, analysis of market trends and customer needs using a data lake can give ideas for developing innovative insurance products and solutions that give competitive advantage.

Caylent’s proven AWS Financial Services Consulting Competency and experience with modernizing infrastructure, migrating data platforms, and implementing generative AI address these challenges with an agile, data-centric strategy.

Caylent’s data engineering experts will work with you to build a foundational data lake and enable your teams on how to use no-code solutions for wrangling and exploring your data. Our Serverless Data Lake Catalyst will shorten your time to market from months to weeks and set you up to easily grow your data lake by scaling ingest sources through low-code solutions.

Key Activities

01 – Discover

A workshop examining the current data lake foundation, establishing data exploration needs, and documenting requirements for data import, access patterns, and reporting compliance

02 – Implementation

Delivering a well-architected baseline infrastructure, data ingestion routines, and security model supporting a data lake within a production account with up to 3 single schema sources imported

03 – Enablement

An EDA lab providing hands-on experience using AWS Glue DataBrew and Lake Formation, performing CRUD and search operations via API, SQL queries via Athena, and data analysis with QuickSight

Engagement Details

Highlights

- Replace vendors with AWS serverless services such as AWS Lake Formation, Amazon S3, AWS Glue, and AWS Glue workflows
- Easily scale your business, data sources, and pipelines through prebuilt IaC automation
- Run no-code data analysis leveraging Amazon Athena and AWS Glue DataBrew
- Establish a future-proof platform that’s ready for next-generation AI and analytics

Deliverables

- Data landscape educational workshop and requirements documentation
- Architecture diagram of data lake and data workflow designs
- MVP Serverless Data Lake
- EDA lab on data wrangling and stewardship
- Diagrams and documentation developed during the engagement (i.e. source code, scripts, templates, and other artifacts)