



# Intelligent content discovery & real-time behavioural analytics with AWS OpenSearch for a leading learning experience platform.

**90% ↑**

Customer satisfaction

**2x ↑**

User Engagement

**1 Billion+**

Events per day

## CLIENT

The client offers an AI-powered knowledge cloud platform for knowledge management and personalised learning.

This LXP platform is used internationally by The Global 2000 companies and large government organisations.

## AT-A-GLANCE

- Real-time insights
- Capacity to process 1 billion+ events per day.
- Migration of 1TB+ historical data
- Serverless architecture.
- AWS OpenSearch Deployment
- Integration between AWS Glue and AWS OpenSearch.
- Capacity to support 6TB cluster across 5 regions with 30 GB/day ingestion and 2000 queries/sec.

## PROJECT CONTEXT

The client product team identified customer requirements to be able to get real-time insights on employee (i.e. end-user) engagement with the learning platform to drive content discovery & employee engagement.

The solution must capture and process millions of user events in a near real-time environment. It must consolidate business data from multiple sources, remove duplicates, and enrich for integration with event data.

## PROJECT OBJECTIVES

- Implement AWS OpenSearch platform to power real-time insights in end-user engagement with the learning platform.
- Capacity for ingesting and processing 1 billion+ of events per day.
- Ability to run ad-hoc large queries and generate reports with time-series aggregations.

## SOLUTION DELIVERY

- 100% serverless architecture with components from AWS.
- Consolidated data/events from RDBMS (metadata), Influx & partner systems (event data of the end user & admin).
- Migrated 1TB+ historical data from PostgreSQL + MySQL database.
- Deployed AWS OpenSearch platform to meet client requirements and developed custom dashboards.

## TECHNOLOGY STACK

