

CASE STUDY

Improving Confidence in Daily Regulatory Risk Assessments

AT A GLANCE

Industry

Media, Broadcasting & Entertainment

Capability

Data Quality & Assurance

Solution

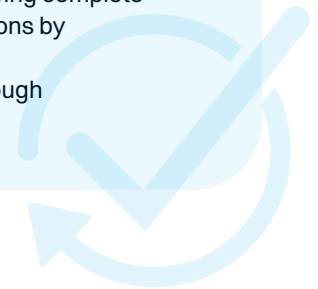
Rules-based customer risk assessment and data validation platform

The Challenge

Meet strict daily regulatory obligations using data drawn from multiple systems and sources.

The Outcome

- Delivered scalable solution that meets client's need support from 30k up to 8million+ evaluations a day
- Delivered auditable and flexible solution. Allowing complete data lineage tracking and rapid experimentations by enabling the business to perform AB analysis
- Reduced operational and compliance risk through automated validation and monitoring



BACKGROUND

This major resort & entertainment company needed to perform daily customer risk assessments as part of evolving regulatory obligations. Existing systems could not reliably support the scale, auditability, or consistency required for this process.

THE CHALLENGE

Customer risk assessments relied on data spread across multiple platforms, with varying levels of quality and consistency. The organisation needed a reliable way to combine that information, apply assessment rules consistently, and produce outputs that could stand up to regulatory review. Failure to do so carried operational, financial, and reputational risk.

WHAT KJR DELIVERED

OUR ROLE:

KJR designed, built, and supported a production data and rules platform that could process large assessment volumes while maintaining traceability and data integrity. The work focused heavily on quality controls, monitoring, and operational reliability rather than simply producing outputs.

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WHAT KJR DELIVERED

KEY CONTRIBUTIONS:

- Designed and implemented a scalable rules engine using BigQuery
- Combined data from multiple systems into a consistent assessment process
- Embedded automated validation, monitoring, and alerting
- Introduced version control and auditability across rule changes and outputs
- Supported production operations and ongoing optimisation

HOW WE DID IT

01

Discover & Assess

- Analysed regulatory obligations and assessment workflows
- Identified data quality risks, dependencies, and operational failure points

02

Assure & Validate

- Built automated validation and monitoring into the platform
- Established traceability between source data, business rules, and outputs
- Tested assessment logic against real operational scenarios

03

Release with Confidence

- Delivered a production-ready platform capable of handling high daily volumes
- Introduced operational monitoring and alerting to support ongoing reliability

IMPACT & BUSINESS OUTCOMES

- ✓ **Enabled** large-scale daily regulatory assessments with consistent outputs
- ✓ **Improved** confidence in the accuracy and integrity of customer risk data
- ✓ **Reduced** manual intervention and operational workarounds
- ✓ **Created** clearer audit trails for compliance and reporting activities
- ✓ **Established** a scalable foundation for future regulatory changes and growth



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WHY KJR

- Experience delivering assurance-focused solutions in regulated environments
- Strong capability in data quality, operational reliability, and scalable delivery
- Practical focus on systems that continue to perform under production conditions

TECHNOLOGY VALIDATED

The following technologies were validated as part of the engagement:

Google Cloud Platform:

- BigQuery
- GCS
- Cloud Run Functions
- PubSub
- GCP Alert
- Data Studio (dashboards)

CI/CD:

- Terraform
- Cloud build
- BitBucket

