Cloudya

Customer reference: **Weld IT**

Weld IT provides a quality management platform used by companies in highly regulated industries such as oil and gas, shipbuilding, and aerospace. Their customers must comply with strict ISO welding standards that require large volumes of highly structured technical documentation.

Weld IT needed a way to modernize how welding documentation was processed, validated, and reused across its platform. These documents are essential, but they are also time-consuming and error-prone to handle. Each customer uses different formats, templates, and vendors, making standardization difficult and scaling even harder. As Weld IT looked to strengthen its platform and improve the value delivered to its customers, it became important to streamline how this information was handled

and create a more consistent foundation for future growth.

The challenge

Weld IT's customers must manage complex welding standards documents that traditionally require hours or days of manual review and data entry. The problems were consistent across industries:

- Large, technical documents had to be read and interpreted manually
- Key data had to be extracted and re-entered into multiple systems
- Formatting and structure differed between vendors and regions
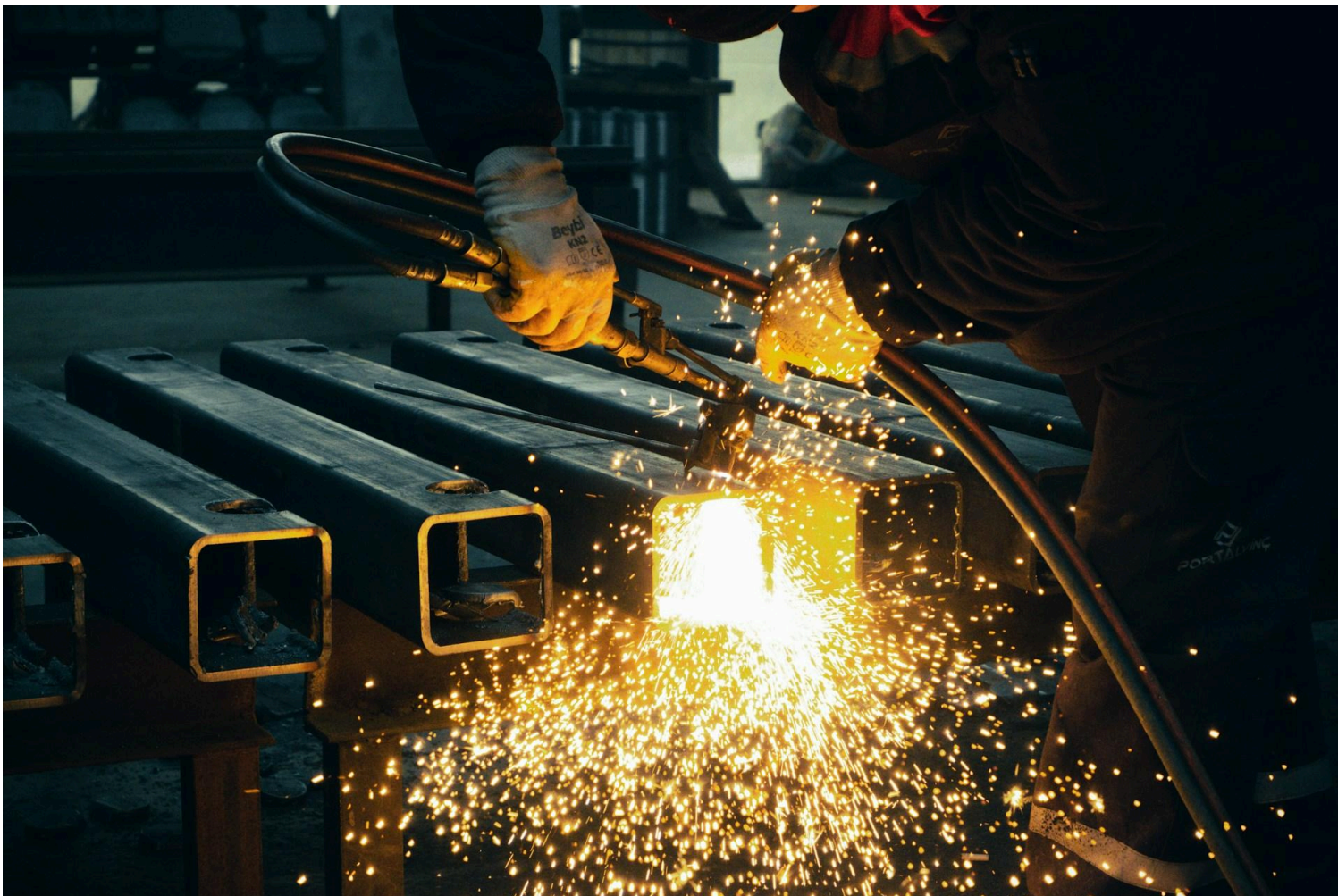- Errors and inconsistencies were hard to detect

This created friction for customers and limited how fast Weld IT could grow its platform.

Weld IT set out to automate this process and make welding compliance data structured, consistent, and scalable across customers and markets. ⌗

Cloudya's role

Cloudya worked with Weld IT as their AWS partner and delivery lead, helping translate business goals into a production-ready cloud solution.

Cloudya enlisted the help of Cloud Bridge, who contributed with its deep AI engineering

expertise, while Cloudya was responsible for ensuring that the solution:

- Fit Weld IT's business model and product roadmap
- Was secure, compliant, and commercially viable
- Could be operated, scaled, and supported in production
- Was built inside Weld IT's existing AWS environment

Cloudya acted as the bridge between Weld IT's product, compliance, and commercial teams and the underlying AWS technology, ensuring the project moved from concept to real-world use.

The solution

Together, Weld IT, Cloud Bridge, and Cloudya built a generative AI solution on AWS using Amazon Bedrock and Claude Sonnet 3.7.

The system automatically processes scanned and digital welding documents, extracting structured metadata in JSON format without relying on traditional OCR pipelines. Custom AI prompts ensure that key welding parameters, certifications, and references are captured accurately and consistently. ⌗

To meet enterprise and regulatory requirements, the platform runs inside Weld IT's own AWS environment with:

- Strict IAM access controls
- Multi-tenant data separation
- Secure, managed AI model access through Amazon Bedrock

This allows Weld IT to offer advanced AI features to customers while maintaining data isolation and compliance.

The business impact

Initial results show that the solution reduces manual data entry time by 80–90 percent, while also cutting down on human error.

For Weld IT and its customers, this means:

- Faster onboarding of new welding projects
- Lower administrative costs
- More reliable and standardized compliance data
- A platform that can scale to larger enterprise clients

Instead of spending days interpreting and retyping documents, customers can now review and validate AI-extracted data in hours.

What this enables next

With structured welding data now available in a consistent format, Weld IT can go further. The platform is designed to support future automation such as:

- Automatically generating welding standards documents
- Pre-populating compliance forms
- Supporting larger and more complex enterprise environments

This positions Weld IT to expand internationally and support more demanding customers without increasing operational overhead. ⌗

Why Cloudya

Cloudya helped turn advanced generative AI into a commercially usable product for Weld IT.

By owning the AWS environment, security model, deployment architecture, and operational setup, Cloudya ensured that the solution was not just a prototype, but something Weld IT could run, sell, and scale as part of its core platform.

The result is a modern, AI-powered compliance engine built on AWS that gives Weld IT a clear competitive advantage in a demanding global market.