Case Study

Techverx

qcs quality certification SERVICES

Strengthening **Organic Enforcement**

Team Composition:
1 Senior Engineer,
1 Project Manager

Project Duration:
3 Weeks
(Dedicated Team)

Tech Stack:
Nuxt, Vue JS

Project Overview

QCS leverages cutting-edge AI, computer vision, and LLMs to verify retail consumer product labels for compliance with USDA standards. The application enhances review speed, ensures accurate reporting, and supports global operations in maintaining the highest compliance standards.

Business Challenges

- **Eliminate manual effort completely** and streamline the prolonged compliance review process via automation.

- There were **multiple USDA standards** which had to be included in the ML/AI automation.

- The product labels had **virtually unlimited formats and variations and a strong OCR** and computer vision approach was needed to verify the labels.

Solutions Delivered

- Developed a **cloud-based ML/AI solution** utilizing Computer Vision OCR and LLMs to automate label verification.

- Built an **AI pipeline to manage the entire process**—from image/PDF upload to final verification reports.

- **Incorporated all USDA standards** with flexibility to add new compliance rules.

- **Enabled high-accuracy** processing of product labels across the US market.

Results & Impact

- **90% Success Accuracy** in Label Processing
- **90% Increase in Team Productivity**
- **3-Second Processing Time** vs. Hours of Manual Review
- **Significant Reduction in Manual Effort,** Saving Time & Increasing Efficiency

Conclusion

- **Techverx empowered QCS with an AI-powered compliance solution** that significantly enhanced label verification speed, accuracy, and operational efficiency.