



PARTNER: Xoriant

WEBSITE: www.xoriant.com

LOCATION: Sunnyvale, California

ORG SIZE: 4000+ employees

PARTNER PROFILE:

Xoriant is a product engineering, software development and technology services company, serving technology startups as well as mid-size to large corporations. With 30 years in business, 4000+ employees and \$240M+ in revenue we bring proven experience, mature processes and expertise in leading-edge Big Data, Analytics and Machine Learning technologies.

Data Digitization using Azure OCR for a Leading Diagnostics Firm

SITUATION

The client is a leading global diagnostics company that manufactures a wide array of innovative medical diagnostic assays. The company had about 50,000+ scanned documents across 200+ document families including Tables, Label-Value pairs, Handwritten and strike-through Handwritten information. The client wanted a solution to digitize and index this information to equip scientists with real-time access to critical data records for research.

SOLUTION

Xoriant Azure-based Smart Capture solution was used to make reports searchable for clinical scientists with limited IT knowledge. We performed data classification, data extraction, and the quality checks to convert the scanned documents into accurate digital records. The information was extracted from Tables, Label-Value pairs, Handwritten and Strike through handwritten documents spread across 200+ document families. Overall, 50000+ documents were digitized and indexed. Our efforts enabled scientists with access to manual records in digital format for seamless research and decision-making.

Our key contributions included:

- Handling document classification and data extraction using Azure OCR and AI-based software
- Performing quality checks for data accuracy
- Developing UI for quick document access

BENEFITS

- Achieved 99.5% accuracy levels in digitized documents with our data quality improvement efforts
- Equipped scientists with the ability to quickly search historical documents and visualize data for making product improvements
- Minimized information search time from hours to seconds and improved investigation efficiency with a centralized data storage and retrieval system
- Enabled better quality management in the manufacturing process by equipping scientists with better analytical abilities
- Minimized resources needed for data mining with digital transformation, allowing them to work on critical investigations
- Increased customer satisfaction with accelerated product development and improvement in the overall release quality



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OFAC Compliance for a Fortune 100 Bank

SITUATION

The client is a leading Fortune 100 bank with a client base of over a million people across countries. As an international bank, the client had to stay compliant with countrywide regulations and standards to maintain their credibility as a trusted bank. Since the information in all annexure documents was scanned manually, there was a high risk of non-adherence to different regulations like OFAC, KYC, etc. The client wanted a faster, trustworthy, and automated solution that can overcome the challenges in complying with OFAC regulations which require thorough scrutiny of all the supporting documents involved in a particular transaction for pointing out suspicious or bad entity names.

SOLUTION

Xoriant Smart Capture solution helped the customer to scan all the transaction documents accurately to reduce manual efforts and errors. The key contributions included:

- Designing a flexible system that accepted input files in any file format including plain/OCR/HTML file seamlessly integrating with the client's third-party OCR tools
- Developing classification, decision-making and machine learning algorithms for address detections, categorizing text/data into different entities and re-using them for future checks
- Implementing a UI-based training framework for applying incremental feedback for named entities
- Predefining a text template to support context-based training using machine learning algorithms for increasing the scanning accuracy
- Providing the ability to locate and classify elements into pre-defined categories that helped in quick analysis of the transactions/documents and improve efficiency

BENEFITS

- Achieved 95% accuracy of compliance checks with the implementation of the solution
- Reduced manual tasks and operational costs by 30%
- Improved the productivity in document scanning and processing with an automated workflow process



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Quick Sampling and Distribution Solution for a Life Sciences Industry Leader

SITUATION

The client is an industry leader offering cloud software solutions and services to life sciences vertical. The commercial services division of our client owned sample management and distribution system. Healthcare practitioners filled up sample request forms and sent them to our client for further processing. Data entry operators fed the necessary information from scanned sample request forms, acknowledgment of content, and follow up forms into the sample management system. This entire process was manual, time-consuming, and lacked accuracy since it was dependent on operator performance. The client wanted a solution that would help automate the quick sample processing and distribution process and make the operation seamless.

SOLUTION

Xoriant Smart Capture solution helped the customer to identify genuine requests, accurately extract the information from scanned sample request forms, reducing manual errors and efforts. The key contributions included:

- Designing the solution to accept input files in PDF and TIFF formats i.e. scanner output format.
- Ensuring classification, decision-making and machine learning algorithms to identify genuine sample request forms, acknowledgment, and follow-up forms.
- Extracting the business information including Label-Value pairs (Program Number, Practitioner's Name, etc.), Tables (Product Name, Qty, Manufacturer, etc.) and passing it to the sample management and distribution system.
- Performing end-to-end data extraction quality checks with our expert team to ensure accurate inputs to the sample management and distribution system.

BENEFITS

- Increased operational efficiency with the implementation of the solution
- Achieved accuracy in information extraction from scanned documents
- Reduced manual tasks and costs associated in their business operations
- Automated their business workflow making the process seamless