Fast and Secure Data Redaction

Information privacy is now a top business priority for companies of all sizes across all industries. According to Mordor Intelligence, the data masking market was valued at **$483.90 million** in 2019 and is expected to reach **$1044.93** million by 2025, at a CAGR of **13.69%** over the forecast period 2020 - 2025. For years, institutions of all kinds have been scanning these unstructured documents and converting them into a variety of electronic formats as information stored digitally is easy to store and reuse. Projections from IDC state that, "80 percent of worldwide data will be unstructured by 2025".

CHALLENGE

This raises a huge issue of privacy concerns arising, as these documents contain sensitive and confidential information. Therefore, companies are required to be compliant with their respective privacy policies while handling these sensitive documents. Data redaction is one of the many methods to safeguard confidential information inside documents that are in digital formats (.pdf, .jpeg, .png). Document redaction is a process where sensitive information contained inside a document is 'sanitized', blocking the capability of the data being read. For documents in the hard paper format, the redaction process is done manually using markers to redact sensitive information. Currently, for the soft copy or digital versions, redaction processes are done using PDF/Image editors. The time it takes to implement redactions across documents would significantly increase, should there be an increase in the scale of business operations.

One of our clients in the financial services sector approached us with the requirement of redaction process requirements to be done at a faster rate and scaled to handle over 1000 files at a time. Their conventional methods for handling these sensitive documents for redaction were obsolete and could not scale for their business.

SOLUTION

The Idexcel team developed an automated redaction system called Red-Ex after experimenting with various methods and tools. Red-Ex runs on an advanced custom redaction algorithm, which runs on top of the AWS Textract service. The redacted output is a one-way process, meaning the redacted sensitive information cannot be reversed using other software. This ensures 100% protection of sensitive information. With the solution we applied, a user can upload different financial documents to the Red-Ex user interface

in different formats **(.PDF, Scanned Image, etc.).** The user is then provided with an option to redact a specific choice of information deemed sensitive in the user interface itself. Once the document is submitted, the redaction process begins, and the resulting redacted document is emailed to the client's inbox. We also have an API for integration with the client software (i.e., any programming language stack). The output can be redirected according to the user's requirement, with either the redacted document sent to the inbox or other software pipelines, for further document processing.

Document Redaction Process
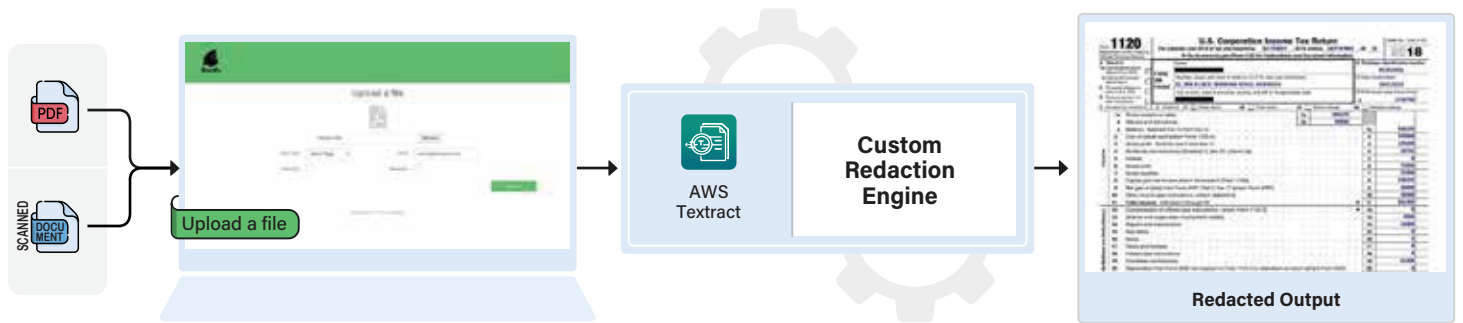
BENEFITS

Easy Integration: Red-Ex is designed to be robust; it has an internal module that handles a certain level of noise in the data. This solution can be integrated into any loan management or other financial decision-making systems that are running on a different technology stack via the microservice architecture.

Easily Customizable: Custom algorithms can be added for handling different customer-specific forms.

Scalable & Flexible: As Red-Ex runs on top of the AWS environment, it can scale quickly and handle heavy workloads automatically.

Faster Processing Time: The result was an estimated 10 minutes saved on the processing of each file in comparison to the original process of manual document redaction and scanning the redacted file.

OUR AWS COMPETENCIES

- Public Sector
- Solution Provider
- DevOps Services Competency

- Financial Services Competency
- Migration Services Competency

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