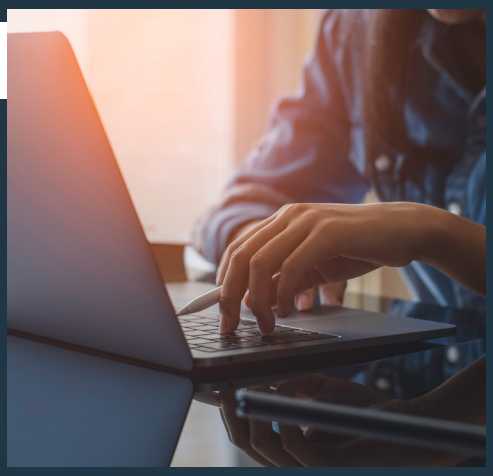
Welcome to the Human Side of Tech

Data Breach Notification Use Case

Responding to a data breach requires rapid, accurate identification of impacted individuals while managing significant data volumes under tight deadlines. In this case, an AI-driven review approach enabled the organization to dramatically reduce both time and cost while maintaining precision and defensibility.

The team transformed a complex breach response into a focused, efficient workflow and met a tight 45-day deadline with 80% savings on cost and time.



AI-Enabled Workflow

Keyword Search, Deduplication & Data Reduction

Apply standard eDiscovery workflows to quickly reduce overall data volume by 50% and remove redundant content.

PII/PHI Identification

Use automated entity detection to isolate sensitive data within the dataset using specialized data breach analysis tools.

AI-Assisted Validation (TackleAI)

AI-supported validation ensured only relevant sensitive data was escalated.

Notification Sent

Identify impacted data and finalize notification based on validated findings.

TCDI Use Case Study

The Story Behind the Results

The project began with a large data breach set of nearly 1.6 million documents (513GB of data). Using traditional keyword search, deduplication, and data reduction techniques, the team quickly reduced that volume by half.

Next, they used TCDI's internal PII and PHI identification tool to detect sensitive information across the dataset. With this automated entity recognition, the system isolated documents containing potentially impacted data, reducing the population further to 358,000 documents.

Once that was complete, the remaining data underwent AI-assisted validation using TackleAI to confirm which documents truly contained sensitive information. This step was critical in eliminating false positives and ensuring accuracy. Through this process, the dataset was reduced to 32,000 documents containing confirmed PII or PHI, which accounted for 2% of the original volume.

With a highly targeted dataset, the organization was able to efficiently identify 3,100 impacted individuals and complete the notification process. The entire end-to-end review of 1.6 million documents was completed in just 45 days, reducing both time and cost by over 80%. What began as a massive and time-sensitive challenge became a controlled, defensible process driven by precision and efficiency.