Pilot Program Tests Catalyst’s Predictive Ranking, Finds 90% Cost Savings vs. Linear Review

DSI, a Catalyst partner, recently completed a test program that evaluated Insight Predict, Catalyst’s integrated technology-assisted review (TAR) engine. DSI found a 72% reduction in workflow and a 90% cut in costs using Insight Predict vs. traditional linear review.

Advanced Search Initially Used to Cull the Data

The opportunity to run the pilot program came about while DSI was working for a law firm on a case involving a government inquiry into a U.S. healthcare company. Early in the case, DSI and the law firm realized that more data was involved than they had initially thought. The original estimate of 200 GB quickly grew to more than 500 GB, which could easily represent more than 5 million files.

DSI and the law firm started the process by focusing on two of the primary custodians. They developed effective keyword searches based on DSI’s proprietary iterative search and sampling techniques. Next, they used Catalyst Insight’s PowerSearch utility to test the terms and create detailed reports for search-term analysis. After evaluating the results from those reports, they adapted the key terms to optimize results.

By using the sampling and search reports, the legal team was able to work with the government to further define the scope of the inquiry and build a list of effective key terms. As a result of this process, the team reduced the initial document set by over 90%. Even with this reduction, the legal team still needed to perform a linear and time-consuming review for the remaining volume of data.

Client Snapshot: DSI Pilot Program

- Government inquiry into U.S. healthcare company
- 5 million files from 20 custodians
- Project tests TAR vs. linear review
- Finds 90% cut in costs; 72% reduction in workflow

The team found a 72% reduction in workflow and a 90% cut in costs using Insight Predict vs. traditional linear review.
Using Insight Predict to Improve on Linear Review

DSi suggested that the firm could reduce its review further by using Catalyst’s Insight Predict. Predictive Ranking is a uniquely effective method of TAR. Insight Predict, the application we developed to apply it, is integrated into the Insight e-discovery platform. Insight Predict uses sophisticated mathematical algorithms to analyze seed documents tagged by counsel and find other similar documents.

Through an iterative process, Insight Predict presents additional documents for tagging and ranks the document population in order of its likely relevance to the review. The end result is that counsel reviews documents in order of importance, which translates to quicker review of fewer documents. In most cases, the lower-ranked documents can be disregarded without need for human review.

In this case, the legal team had already reviewed a substantial number of documents based on the results of their keyword searches. DSi and Catalyst used 300 of the positively tagged documents as initial seeds for the pilot program. After inputting the seeds, Insight Predict ranked the entire document population in order of likely relevance. DSi and Catalyst then reviewed a systematic sample of the documents and generated a yield curve to test the ranking.

The Results Were Stellar

In this case, the review team could have found 80% of the responsive documents after review of just 8% of the total document population. In comparison, linear review would have found 80% of the responsive documents after reviewing 80% of the total document population, a potential 72% workload reduction by Insight Predict.

All parties involved concluded that the pilot project was a success. The law firm plans to apply the knowledge gained from using Insight Predict to the rest of the data corpus, saving them the time and money on attorney review for the rest of the custodians.

Insight Predict is a very powerful tool that could revolutionize technology-assisted review. This will lead to dramatic cost and time savings during attorney review, which will greatly benefit our clients.

John Burchfield, DSi VP of business development

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