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Experience CAL
(Continuous Active
Learning) on
VenioOne

Active Machine Learning

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Human Review

+

Dynamic Training Module

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Immediate ROI



VenioSystems

Redefining Discovery



What is CAL?

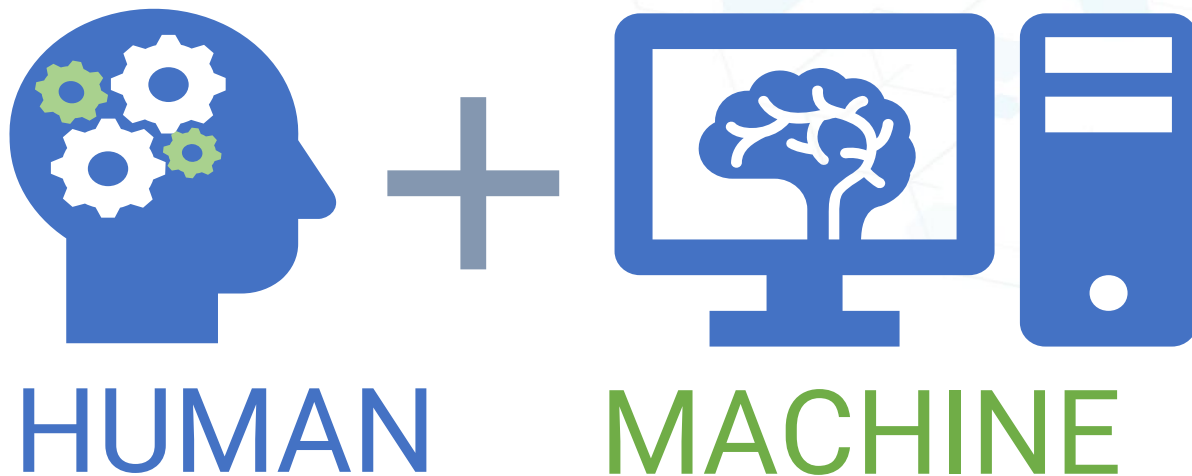
CAL is the best of both worlds. It combines human reviewers with machine learning to yield better results faster.

We are hopeful that having more of a human element in CAL may overcome some of the reservations that attorneys have had to using traditional assisted review where they weren't exactly sure what was going on behind the scenes.

What CAL Means for You

- No Sample Sets Needed
- Reviewer Codes, Venio Learns
- I.D. Relevance Faster
- Review Multiple Categories Simultaneously

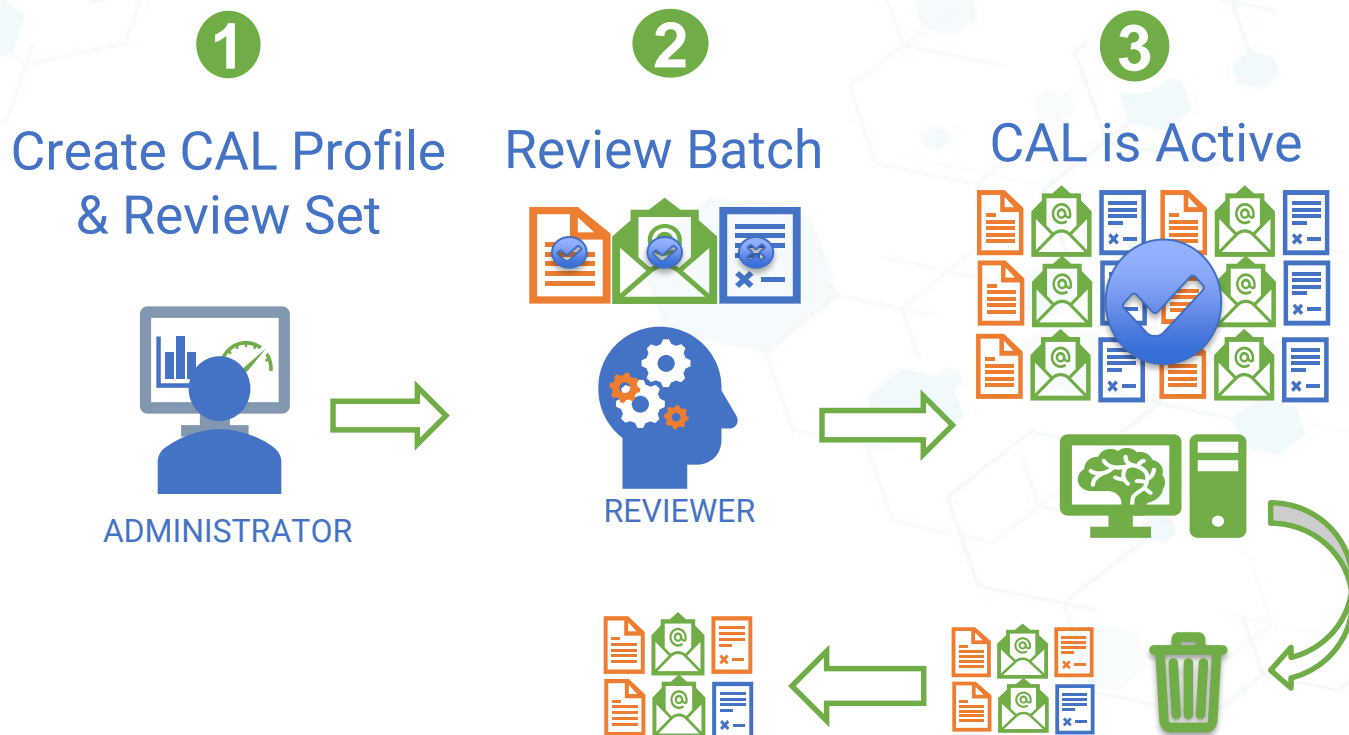
CAL stands for Continuous Active Learning. Continuous in that the model is changing continuously because CAL uses dynamic versus static training models. Active in that VenioOne is actively responding to the actions taken by reviewers and adjusting the batches presented. Learning in that machine learning is being leveraged to improve the model as documents are reviewed to the make the review as efficient as possible.



CAL Allows You to Work Smarter

How Does CAL Work?

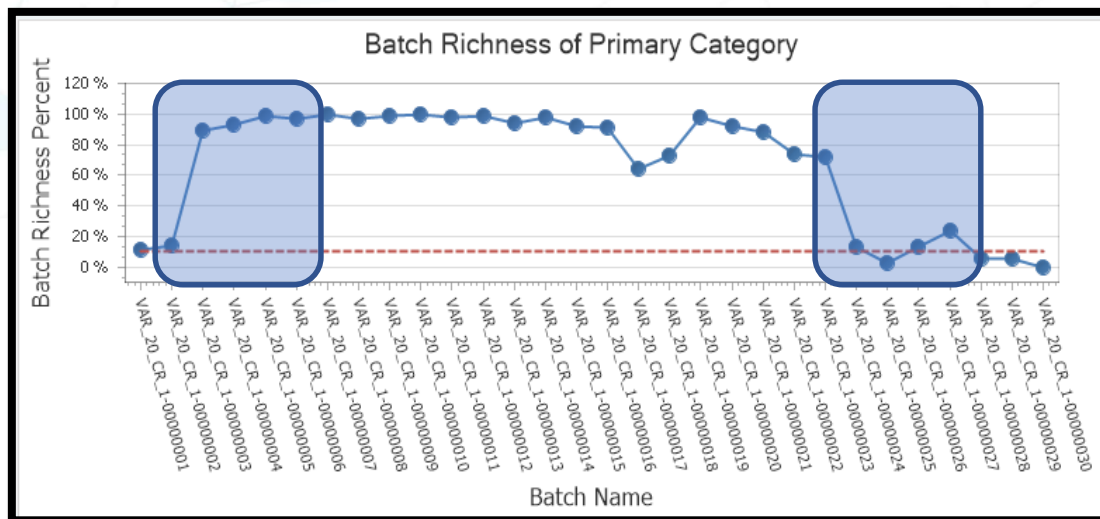
- The administrator creates a CAL Profile and Review Set.
- Reviewers can immediately begin reviewing batches like a traditional linear review.
- In the background, CAL is actively monitoring and learning from what is being reviewed.
- It is creating a model and validating the model continuously.
- It is also sorting the remaining documents and unreviewed batches based on what it learns.
- Presents more relevant content and does further validation during each round of batches presented to the Reviewers.



Determining Your Batch Richness

How It Works

- First, define your batch richness threshold
- Reviewers begin to review documents
- Review & training happen in parallel
- Batch richness refers to the percentage of relevant documents in a batch



Once a CAL profile is created with documents to be reviewed in the review set, then the reviewers begin to review documents until the defined thresholds are hit. It is during this process that the review and training happen in parallel.

As you can see by the chart, batch richness increases dramatically as CAL learns from the first few batches of documents that have been reviewed.

Eventually, it hits a plateau and drops off rapidly, hitting the threshold set by the Administrator (the red line).

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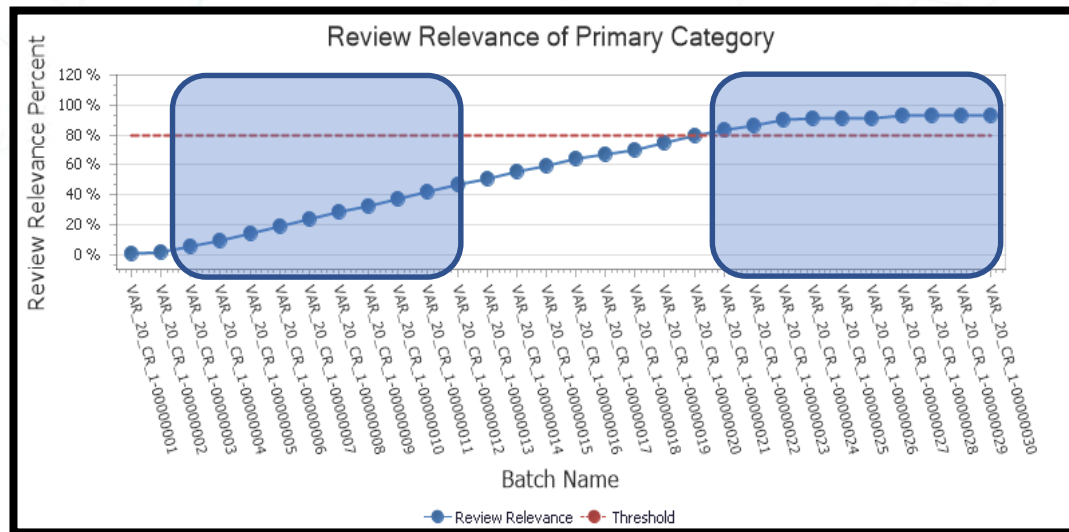
Determining Your Review Relevance

How It Works

- During the profile creation the Administrators will define the review relevance threshold
- Review relevance refers to the percentage of relevant documents found when a batch is reviewed.
- After the thresholds are reached, you're done!

Leveraging SMEs Better

- SMEs can focus on keyword searches and deeper data analysis
- SMEs can highlight terms for reviewers
- SMEs now have more time to monitor the review team and QC as needed



As you can see by the chart, review relevance increases at a steady rate over time as CAL learns from the documents that have been reviewed and sorts document to present batches rich in relevant documents. Eventually, though, it rises above the threshold that has been set and levels off.

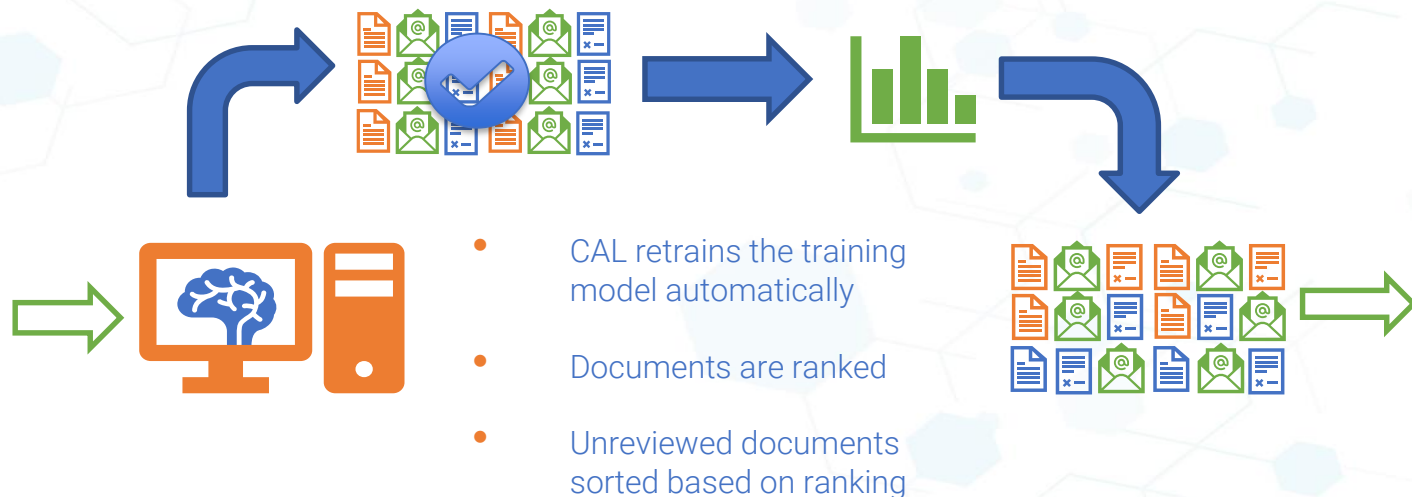
At the point when batch richness and review relevance settings reach the thresholds set by the Administrator, then no more batches are presented to the Reviewers.

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CAL is Hard at Work Behind the Scenes

The Benefits of CAL

- No seed set
- No trial and error
- Training documents are coded by reviewers, not SMEs
- Continuously updated
- Based on reviewer's coding decisions



CAL retrains the training model automatically and is continuously validating the model. Documents are ranked as CAL predicts the remaining unclassified documents to get a new target score. Unreviewed documents are sorted into batches based on their rankings and presented to the Reviewers.

This cycle continues until the target thresholds are reached

CAL is exponentially smarter than VAR

Ensuring Quality Results

- CAL is FULLY AUTOMATED via machine learning, but with human input
- Utilizes the best combination of humans and machine, so that Review and Training occur simultaneously
- SMEs are not needed for training
- The model is dynamic and continuously updated based on the Reviewer's coding decisions and the content presented

Solution	Training Documents	Training Model	Document Categorization/ Prediction
Linear	N/A	None	Manual review and categorization of all documents (after filtering)
VAR	Coded by SMEs	Static - Based on SME's decisions on seed documents and must be manually perfected through several rounds of training	Multiple rounds of training and prediction are done. When prediction is acceptable, then manual review and categorization is done for the predicted documents.
CAL	Coded by Reviewers	Dynamic - Continuously updated and perfected based on Reviewer's coding decisions and content presented	Automated training is integrated and occurs simultaneously with manual review and categorization of documents.

Linear vs. VAR vs. CAL

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VenioSystems

Redefining Discovery

About Venio Systems

At Venio Systems, we are dedicated to working with our trusted partners to bring the latest legal technology innovations to law firms, agencies, and corporations. We provide e-Discovery solutions that streamline and improve the litigation process for our clients and partners, allowing them to achieve the most successful outcome possible while saving time and resources.

Experience the VenioOne difference with our unified platform that powers every phase of e-Discovery: processing, early case assessment, legal analysis, culling, review, and digital production. Our VenioOne OnDemand self-service solution provides users an agile and easy to use system throughout the litigation process.

Bring all phases of e-Discovery from processing through production under one platform with VenioOne.

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