Machine Learning

Workflows Available with Envize™

What is Machine Learning?

"Machine Learning is the specific study of algorithms and statistical models that computer systems use to effectively perform a special task without using explicit instructions, relying on patterns and interference instead. It is seen as a subset of artificial intelligence." (Wikipedia)

In our world, Machine Learning (ML) is the Netflix of document review. The "machine learns" what is relevant and not relevant from human review.

How is Machine Learning Used?

Multiple ML technologies are available within Envize. Which technology or workflow to use depends on the needs of the case. There are three general workflows available and in use.

Which (Technology-Agnostic) Workflows are Available with Envize™
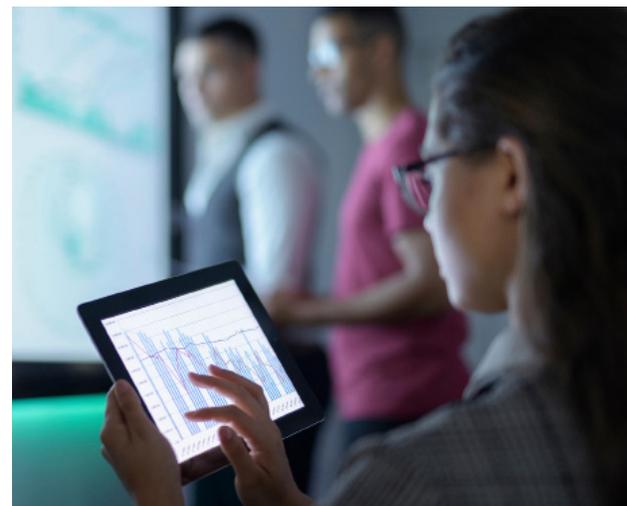
Option 1: Prioritized Review (CAL)

Primary Use Case: You want to prioritize your review by reviewing the most relevant documents first and intend to review every relevant document before production.

Also known as **Continuous Active Learning (CAL)**, this workflow starts with a "judgmental" sample of both relevant and not relevant examples (using search terms). Humans then review documents the technology prioritizes so that they review most relevant to least relevant until no relevant documents exist. The machine "continuously" learns and re-ranks review.

Available Workflows with Envize™

✓ Prioritized Review (CAL)

✓ Simple Active Learning (SAL)

✓ Hybrid Workflow

Option 2: Simple Active Learning (SAL)

Primary Use Case: You may not review every relevant document prior to production. You want to review a few hundred/thousand documents and then have the machine "predict" what is relevant. You are then able to decide whether to review everything predicted relevant, or simply run a privilege screen and produce. This method is the most scientifically defensible workflow.

Humans review a judgmental sample to find examples of relevant and not relevant documents. The machine then provides the reviewer(s) with examples of both relevant and not relevant documents. The technology decides which documents the humans will review by selecting examples about which it is "uncertain." As an example, you can review 1,500 documents out of 1,000,000 to learn just how many are relevant.

Option 3: Hybrid Workflow

Primary Use Case: A combination of Options 1 & 2.

You can begin with either Option 1 or 2 and then switch workflows. For example, you may begin reviewing using the SAL method, achieve "learning stability," get a prediction, and then switch to a CAL workflow to review the predicted relevant documents – from most relevant to least relevant.

Conversely, you may begin a prioritized review, decide there are too many relevant documents, and then switch to a SAL workflow so that you can determine exactly how many documents need review.

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