How AI is Transforming the Legal Industry

The Context

The legal sector continually evolves to adapt to changing economic, regulatory, technology and competitive demands. While change is constant, one thing remains unchanged: the industry's reliance on text-based information. With the constant growth in information volume — all of which must be read, understood, categorized, analyzed and disposed of — processing it thoroughly and in a timely manner has become near impossible.

The only viable way to manage this accumulation of unstructured data is through natural language understanding (NLU) driven by artificial intelligence to augment your existing human experts. This solution enables corporate legal departments and law firms to read and understand thousands of regulatory documents (e.g., interrogation reports, decrees, contracts, ordinances, annotations, etc.), process them, then extract the relevant information in a timely and accurate manner.

Expert.ai's unique hybrid approach to NL combines symbolic, human-like comprehension and machine learning to transform language-intensive processes into practical knowledge and provide you with the insight required to improve efficiency and effective decision making across your organization.

Put expert.ai Technology to Work

The application of natural language understanding (NLU) in the legal profession, and artificial intelligence more generally, covers six areas of legal activity:

Legal Research

E-Discovery

Contract Review

Document Automation

Legal Advice

Legal Analytics

No matter the use case or practice area, expert.ai technology enables you to automate information-intensive processes and leverage all your data to deepen your insight into key business activities.

The Core Capabilities of expert.ai Technology

- Reads and understands legal content
- Automatically analyzes and classifies legal documents
- Enables predictive search
- Extracts relevant data and identifies entities
- Supports content review
- Collects, aggregates and integrates results
- Monitors and manages large volumes of data
- Supports decision-making process

Expert.ai
Legal Industry Solutions

Legal Research

The Context

More than 80% of legal information (e.g., regulations, statutes or case law) lives in unstructured, text-based documents. That is an overwhelming amount of information to process. Traditional keyword search methods can provide some support in identifying keyword relevance and frequency, but they cannot understand the meaning of words in context.

Legal teams need a legal research platform that generates deep insight in a user-friendly way. They need one that can identify previously unknown connections within the data by accessing the troves of information available online or in the legal repositories.

AI Solution

AI models that accept queries in ordinary language go beyond keyword matching to surface truly relevant existing law. Semantic models, in particular, provide nuanced perspectives on how different cases relate to one another. They can, for example, mine archives of legal precedents to find supporting documentation to bolster a legal argument or analyzing a judge's past decisions.
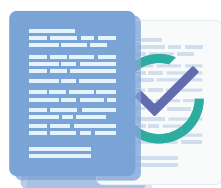
By applying AI-based natural language technology to these searches, you can easily locate relevant data, improve both precision and recall of searches through semantic tagging and clearly label and classify related material. You do this by uploading a single text or an entire legal document to create context

for the search, resulting in a 'query by document' search. This eliminates the process of assembling detailed search queries, increasing the likelihood that relevant material not found by typical queries will be located.

Benefits

- Enhance the quality of results in terms of precision and recall.
- Retrieve all relevant content through a single, intuitive platform to improve the user experience.
- Reduce time spent on search to maximize billable hours.

E-Discovery

The Context

When legal teams begin an investigation, there are terabytes of digital data to sort through within hundreds of thousands of files. This data is impossible to tackle manually. These teams need a solution that separates the relevant documents from irrelevant ones in a few simple clicks.

Traditional approaches involve keyword or Boolean search, followed by manual review. This is time-consuming on both the preparation side as well as the review side and is prone to deliver inaccurate or incomplete results.
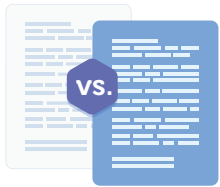
AI Solution

Expert.ai technology is the best solution for multidimensional navigation through the knowledge available among concepts, entities, topics, relationships and locations to support both deductive approaches and inductive approach. It can maximize your access to data archives using tagging and faceted navigation as well as support investigations via intuitive analysis of information to identify abstract connections relevant to the context of your investigation or litigation (e.g., additional custodians to be interviewed).

NLU also makes a plethora of metadata immediately available to you, optimizing the categorization of relevant documents in a quick and efficient manner. This enables you to organize, analyze and search large and diverse data sets for e-discovery, making it easier to determine which documents are relevant to a particular issue.

Benefits

- Efficiently locate larger volumes of targeted information.
- Quickly identify key documents containing relevant information.
- Easily customize document classification and allow integration with any existing information systems.

Contract Review

The Context

Contracts can be relatively simple, such as non-disclosure agreements (e.g., NDAs), or they can be lengthy and complex (e.g., sales or purchase agreements or statements of work). Either way, a lawyer must adequately review and revise them prior to advising his or her client on whether to sign or negotiate for better terms.

For many corporate legal departments and law firms, contract review is a core responsibility. With a growing volume of contracts and potentially thousands of pages to review, the tedious and time-consuming review process can easily become a burden for any lawyer. Mistakes due to human error are inevitable, and they can easily delay deals and impede business objectives.

AI Solution

Contract review involves deconstructing the contract into its individual provisions or clauses, then assessing each to either extract key information or compare against a standard document. Our AI-based natural language technology enables you to compare any contract against a gold-standard version to identify differences in provisions or clauses. You simply indicate which provisions are relevant to the contract being reviewed, and even add a custom option if it is not yet covered.

Our solution also can automate a series of typical processes carried out by law firms (e.g., a formalization of the letter of dispute) to make them faster and more efficient. This frees up time for lawyers to focus on more complex activities that require human intervention.

Benefits

- Improve accuracy and precision of reviewed contracts.
- Reduce risk and decrease contract dispute potential.
- Increase the volume of contracts you negotiate and execute.

Document Automation

The Context

Manually creating legal documents is a cumbersome process that is prone to human error. In an industry that demands precision, even small errors can be costly from both financial and legal standpoints. Combine the error-prone nature of the process with the high volume of documents firms create on a regular basis, and this generic task can prove highly detrimental to even the most well-renowned firms.

AI Solution

Document automation systems typically use some kind of fill-in-the-blank template to tailor a legal document to specific criteria. These systems use either form fills or question-and-answer sessions (sometimes via chatbot) to gather the necessary information, then, in a rule-based manner, draft the document via a combination of conditional document assembly and templated slot filling.

AI can accelerate document automation processes by leveraging natural language processing (NLP) technologies. They automatically identify key information within documents and contracts and use them to compile other types of legal documents (e.g., business contracts, NDA, loan agreements, wills and trusts etc.). Not only does this speed up the process, but it assures you that information is neither missing nor erroneous.

Benefits

● Reduce time spent on repetitive document assembly.

● Eliminate manual errors and mistakes.

● Reduce costs and increase productivity.

Legal Advice

The Context

The standard business hours and long wait times of traditional customer service no longer meets the expectations of your customers. Current and potential clients (and even employees) demand immediate responses to their legal inquiries in real time, no matter the question or time of day. Rule-based (or decision-tree) chatbots can support generic inquiries, but they have no ability to respond to more specific questions that extend beyond FAQs.

AI Solution

Intelligent legal systems that provide a sufficient level of customer support are the product of legal expertise and intelligent technology. They use AI-based natural language technology to understand all specific inquiries and provide immediate, tailored responses to them. These systems enable corporate legal departments and law firms to leverage their own legal knowledge when providing timely responses to customer inquiries.

Legal advice solutions can also support internal processes by making specialist knowledge available to employees as well as customer care. This provides anyone with an inquiry immediate access to smart legal advice, documents and immediate answers to specific queries.

Benefits

- Reduce time and costs associated with customer and internal support.

- Improve customer experience and engagement process.

- Improve resolution efficiency of customer or staff inquiries.

Legal Analytics

The Context

Every decision a corporate legal department or a law firm makes is critical from both a legal and financial standpoint. They can leave little to chance, making predictive analytics tools an indispensable resource. These tools enable firms to understand the relationships between case outcomes, litigation costs and their drivers, providing crucial data that can maximize both productivity and profitability. Unfortunately, statistically reliable predictive models require a large volume of data to train and a continual influx of data to maintain. This is not only hard to obtain, but costly as well.

AI Solution

Given the complexity and volume of your legal documentation, a hybrid model that combines both machine learning and natural language understanding is essential to delivering the best results. This model leverages the automated learning of ML with the precision and understanding of a rule-based symbolic approach to deliver quality insight quickly without the large data requirements.

In doing so, you bring order to your massive amounts of data — such as court dockets, court decisions and a firm's own matter management data — and derive valuable insights and trends from them. This knowledge gives you the edge to make decisions quickly and confidently.

Benefits

- Improve legal performance and efficiency.

- Manage key strategic decisions and predictions throughout the litigation process.

- Gather invaluable insights about time and cost of the cases.

AI's transformative impact on the legal profession will only continue to grow. Seize your opportunity to be a legal leader in efficiency, cost-effectiveness, and productivity.

Try Our AI Solutions Today!

Request your feasibility assessment:
https://www.expert.ai/feasibility-assessment

www.expert.ai