From Concept to Concrete: Teaching Law Students about AI

Northwestern
PRITZKER SCHOOL OF LAW
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Our Collaboration

Jesse (Library) and Stephan (IT/Learning Design) utilized their respective strengths to provide students with opportunities to (1) learn about and experiment with legal AI tools and (2) work in teams to build their own AI-enabled tool.
The Course: Legal Technology

Two Credits

2Ls, 3Ls, and LLMs

Thursdays, 8:25 a.m. - 10:15 a.m.
The Course: Legal Technology

Under the American Bar Association’s Model Rules of Professional Conduct, attorneys are required to “keep abreast of changes in the law and its practice, including the benefits and risks associated with relevant technology.” In this course, technology for law practice will be examined, with topics including, but not limited to, cloud computing, practice management tools, artificial intelligence, information security, eDiscovery, courtroom technology, and access to justice via technology. Throughout the semester, emphasis will be placed on practical strategies for incorporating these technologies into various law practice settings, as well as any ethical implications associated with their use.
Intended Learning Outcomes for Course

1. Identify current technology trends affecting legal practice, including ethical implications.
2. Gain hands-on experience using several technology tools.
3. Consider ways to incorporate relevant technology into future legal practice.
Will A.I. Put Lawyers Out Of Business?

How artificial intelligence is transforming the legal profession

BY JULIE SODOWALE

APRIL 1, 2018, 12:10 AM CDT

The future of the legal profession began 20 years ago.

The technology boom was just beginning with the emergence of email and personal computers. Jay Leib was working for Record Technologies Inc. as director of software sales and training in 1999, and the company was scanning documents into databases for clients. At one point the company printed and scanned legal documents related to a lawsuit with Microsoft. Leib thought that was inefficient, a waste of time and paper.

So he and his business partner, Dan Roth, decided to create a program that would help lawyers manage electronic documents for litigation. Their idea led them to purchase an e-discovery application. By 2000, Leib and his partner launched their own creation, Discovery Cracker.
Intersection of AI & Law Practice

- Due Diligence / Document Analysis
- eDiscovery
- Legal Research
- Outcome Prediction
Legal Tech Startups

This is an attempt to create and maintain an accurate list of legal technology startups. For more information about why I created this list, see this blog post. To notify me of additions or changes, send me an email at ambrogi-at-gmail.com.

Using this table: Click the view button to toggle between a grid or gallery view. Click any entry to expand it. Click the lower right corner for a full-size version. The filter button allows filtering of the list by country, status or any other field. Likewise, the sort button allows sorting by any field. The table is also searchable using the search icon.

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https://www.lawsitesblog.com/legal-tech-startups
https://techindex.law.stanford.edu/
ARTIFICIAL INTELLIGENCE IN LAW: THE STATE OF PLAY 2016
by Michael Mills

Artificial Intelligence (AI) and its impact and applications in the legal profession is examined in this whitepaper by Michael Mills, Co-Founder & Chief Strategy Officer of Nota Logic, a provider of intelligent software.

Mills analyses AI – what the author calls a “big forest of academic and commercial work around the science and engineering of making intelligent machines” – and how AI is being implemented in legal areas such as e-discovery, legal research, compliance, contract analysis, case prediction and document automation.
Machine Learning facilitates the continuous advancement of computing through exposure to new scenarios, testing and adaptation, while employing pattern and trend detection for improved decisions in subsequent (though not identical) situations.

What is the statute of limitations for fraud?

Illinois (State & Fed.)

The statute of limitations for fraud was also five years, and thus, they argued, counts V and VI should also be dismissed.

**CitiMortgage, Inc. v. Parilla**
Appeal Court of Illinois, Second District. - January 22, 2001 - 2016 Ill. App (2d) 150286 - 49 N.E.3d 869

Rather, the five-year limitation of section 13–205 is applicable to fraud-based and fraudulently concealed construction claims.

**Henderson Square Condominium Ass’n v. LAB Townhomes, LLC**
Supreme Court of Illinois. - November 04, 2015 - 2015 Ill. 118139 - 46 N.E.3d 706
It’s How You Know
What’s In Your Contracts

Kira is a powerful machine learning software that identifies, extracts, and analyzes text in your contracts and other documents.

Learn More

https://kirasystems.com
Draft Analyzer

Enter one or more full paragraphs below to compare your language to the market.

Drag & Drop
your Word or text file, or click to enter your own text

How it Works
Draft Analyzer is powered by Exemplify™ – our patented software application that uses an algorithm to show you the developing consensus among drafters based on its analysis of each paragraph from virtually every agreement and organizational document filed as an EDGAR exhibit. Our system first categorizes each paragraph based on textual similarity and constructs one or more unified versions (consensus templates) for each identified cluster of similarly worded paragraphs. A consensus template reflects the most common language in the template’s source documents. It also identifies and quantifies areas of linguistic variance and displays the most common alternative words or phrases used in its source paragraphs.

Consensus Templates
When you input your own text, our proprietary algorithm will often identify multiple matching templates, each showing how your language differs from the consensus it represents. Template results are ranked by consensus size.
Learned Hands

Play this legal game, where you read people’s stories about their problems, and spot what issues are present.

Your game-play builds Access to Justice AI models, that can automatically identify people’s legal problems.

Play Now!

https://learnedhands.law.stanford.edu
Natural language processing (NLP) is a method to translate between computer and human languages. It is a method of getting a computer to understandably read a line of text without the computer being fed some sort of clue or calculation. In other words, NLP automates the translation process between computers and humans.

As businesses and other entities have sought to collect more personal data on individuals, the public has pushed back, and law in the United States and elsewhere have responded by passing data protection laws. Recent data protection laws passed by the US have already resulted in a number of lawsuits...

...The European Union’s General Data Protection Regulation has been held up as a model for data privacy laws in the United States. States have already enacted or are currently considering laws which mirror the General Data Protection Regulation...

...The General Data Protection Regulation applies to any entity that holds or uses data on individuals located within the European Union where the entity itself is located, and therefore a vast array of entities located within the United States will be subject to the General Data Protection Regulation...

...[FN2] In order to avoid compliance issues and penalties concerning the General Data Protection Regulation, a number of U.S.-1 by eliminating or severely limiting European access to their services; for example, major American newspapers including the Chicago Times, and Baltimore Sun took down their websites in European Union countries prior to the effective date of the General Data Protection Regulation...
The Algorithm as a Human Artifact: Implications for Legal [Re]Search

Susan Nevelow Mart

The results of using the search algorithms in Westlaw, Lexis Advance, Fastcase, Google Scholar, Ravel, and Casetext are compared. Six groups of humans created six different algorithms, and the results are a testament to the variability of human problem solving. That variability has implications both for researching and teaching research.

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Upload a complaint or brief to quickly find on-point case law.

CARA A.I. uses the facts and legal issues in your document to find relevant authorities.

Drag a complaint or brief here

Or, select a file

PDFs, Word docs, or text files

Casetext uses bank-level security

Your documents are never stored on Casetext’s servers
An Example

Our client, Francisco, is a Guatemalan national and former officer in the Guatemalan army who is hoping to gain asylum in the United States. About one year ago, Francisco was quoted in a story appearing in Prensa Libre, a major newspaper based out of Guatemala City. In the story, Francisco was critical of the Guatemalan military and characterized his former colleagues as “corrupt.” He claims that, since the story appeared in Prensa Libre, several threatening notes have been left at his residence and his vehicle has been vandalized on multiple occasions. Although he is unable to definitively link these events to government agents, he is confident he is being targeted for intimidation and harassment. Recently, Francisco traveled to New York City for an international event and, rather than return home, he took up residence at a local hotel. For fear of his safety, he is hoping to gain asylum and stay in the United States.
Cantor Injury Law

At Cantor Injury Law, we will protect your rights and win you all the available money after an injury from a car accident, truck accident, work injury, or other cause. We handle only serious injury cases and know how to win. You do not need any money for us to help you. When you choose Cantor Injury Law to help you, we will tenaciously fight for justice on your behalf and will work tirelessly in order to maximize your compensation.

Use the Cantor Injury Law skill to get more information on what to do if you've been seriously hurt or want to know how the personal injury attorneys at Cantor Injury Law can help you.

Here's some of the ways you can use the Cantor Injury Law skill:

Start the skill by saying "Alexa, start Cantor Injury Law." You will be greeted by welcome message and a menu. While engaged in the Cantor Injury Law skill menu, you can ask questions or statements like:

- What should I do if involved in a car or motorcycle accident?
- Tell me seven reasons why I should choose Cantor Injury Law.
- How much do they charge?
- Tell me what I should do when a dog bites me.
- Tell me what I should do when I get injured on the job.
An expert system is a computer program that is designed to emulate and mimic human intelligence, skills or behavior. It is mainly developed using artificial intelligence concepts, tools and technologies, and possesses expert knowledge in a particular field, topic or skill.

Q(1): Would you like to write an interactive QnA?
A: Yes.

Q(1.1): Are you viewing this exchange in a window with the same text in two places, a text area on the left, and a pane on the right, with user interaction, defining how the bubbles appear?
A: Yes.

Q(1.1.1): The text on the left is just a set of nested text blocks. The blocks are.
A: What's the asterisk for?

Q(1.1.1.1): Well, sometimes you do need the numbers, like when you want to stop the conversation.
A: Yes. Again, again!

Q(1.1.1.1.1): You can place a GOTO call at the end of a question (A: Yes. Again, again?
Q(1.1.1.1.1.1): GOTO:1.1.1.1.1
A: No. Let's move on.

Q(myname): Instead of pre-defined answers/choices, you can a X:

A: No.

Q(1.1.2): GOTO:2
A: No.

Q(1.2): Then head over to [http://www.qnamarkup.org](http://www.qnamarkup.org) for help.
A: No.

Q(1.2.1): Okay then. GOTO:2
Welcome to Illinois Legal Aid Online's Fee Waiver program.

This program will help you prepare forms to participate in a court case for free.

The forms you create with this program can only be used in Illinois.

Continue
DoNotPay
joshua browder

3.4, 237 Ratings
Free

Screenshots  iPhone  iPad
In 2013, police officers in Wisconsin arrested a man driving a car that had been used in a recent shooting. The man, Eric Loomis, pleaded guilty to attempting to flee an officer, and no contest to operating a vehicle without the owner’s consent. Neither of his crimes mandates prison time.

At Mr. Loomis’s sentencing, the judge cited, among other factors, Mr. Loomis’s high risk of recidivism as predicted by a computer program called COMPAS, a risk assessment algorithm used by the state of Wisconsin. The judge denied probation and prescribed an 11-year sentence: six years in prison, plus five years of extended supervision.
TECHNOLOGY AND IIOT

How Should AI Be Regulated?
How’d It Go?
Learner Analysis
Knowledge of AI Systems

I have only general knowledge of Artificial Intelligence systems
5 (55.6%)

(Stephan Martone, 2019)
Programming Experience

I have no experience with programming languages.
8 (88.9%)

(Stephan Martone, 2019)
Electronics Experience

I have no experience with creating projects with electronics.
8 (88.9%)

(Stephan Martone, 2019)
Curiosity

(Stephan Martone, 2019)
Maker Skills

- Curiosity
- Hypotheses
- Inquiry skills
- Open mind
- Application of knowledge and skills
- Higher order thinking
- Iteration

(Stephan Martone, 2019)
AI Hardware Components
Main Processing Board

Raspberry Pi
Input Sensor

Pi Camera
Teach an AI System
Train AI to Solve a Problem

The Culprit

(Addison, 2018)
Context Matching

Visual Geometry Group

The Oxford-IIIIT PET Dataset - Category: Bombay

(Visual Geometry Group, 2018)
Public Data Set

Object #0: kind=PERSON(1), score=0.567637

(Hart, 2018)
Custom Data Set: Results

(Hart, 2018)
Google AIY
AIY Kit
Robot Drone with Face Tracking Capability
Summative Evaluation
How did you feel about the Hands-On Approach?
Did your Attitude Change?
Would this be Useful in Your Law Curriculum?
Questions?
References


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