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USE OF ARTIFICIAL INTELLIGENCE (AI) IN THE FIELD OF LAW

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USE OF ARTIFICIAL INTELLIGENCE (AI) IN THE FIELD OF LAW

Maoyu Wang*

Abstract

The Arizona Supreme Court has sought ways to innovate justice by lowering costs for legal services. Artificial intelligence (AI) appears as a possible solution. Using AI in the field of law may help decrease costs for legal services. Additional benefits include saving time for lawyers and helping lawyers better communicate with the client. However, an AI tool inherently comes with shortcomings due to the way it operates, e.g., deep learning. The nature of being a black box to programmers and developers causes the AI to have unknown risks especially in lawsuits. Although many AI tools exist on the market and the public can envision the future of their applications, legal disputes may arise when those unknown risks become realities. An AI tool may fail in giving optimal outputs or give biased outputs, resulting in claims like ineffective assistance of counsel or legal malpractice. Apart from the legal ambiguities of topics around using AIs, the client's interest is not best served by adding additional litigation. This Note proposes ways for lawyers to mitigate their liabilities through contracting indemnification clauses with AI program providers. Alternatively, to suing lawyers and adding additional legal disputes, the client may seek insurances against unknow risks caused by AIs. State supreme courts may gradually increase the amount of AI uses and protect clients through express written consent. Lastly, state legislatures also have an interest in passing laws protecting citizens' data privacy.

<u>Introduction — Why Should AI Matter in Law</u>

The Arizona Supreme Court has taken many steps to accelerate innovation and increase access to justice, including allowing non-lawyers to provide legal services¹ and allowing businesses to invest in legal entities.² The Arizona Supreme Court's efforts might decrease the costs of legal services significantly.³ If someone can provide legal services without the burden of going to law school, the cost of that service should come down.⁴ But how about a robot? Won't legal services be extremely cheap after the Court replaces human legal service providers with robot providing legal services? For customer service in the banking industry, for example, AI programs answer the phone, not humans. Can we replace lawyers and paralegals with robots?

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¹ Ariz. Code of Jud. Admin. [hereinafter ACJA] § 7-208.

² ACJA § 7-209.

³ Maya Steinitz & Victoria Sahani, *You No Longer Have to be a Lawyer to Practice Law in Arizona. That's Good and Bad*, AZCENTRAL (Feb. 6, 2021), https://www.azcentral.com/story/opinion/op-ed/2021/02/06/arizona-no-longer-restricts-law-lawyers-here-pro-con/4339871001.

⁴ *Id.*

Meanwhile, AI technology is experiencing rapid growth and is widely used in all facets of daily life⁵, which further raises questions about its potential use in the field of law. However, the use of AI programs in law faces many barriers. For example, there are questions as to whether the technology is mature enough to use. Another problem is that using AIs not only comes with benefits like low costs, but also comes with challenges, similar to the problems⁶ that develop from allowing paraprofessionals to provide legal services and non-lawyers to own law firms.

This Notes explores the current and potential future uses of AI in the field of law. In addition, it considers the benefits and shortcomings of using AI programs to replace human legal services. The Note also reviews existing relevant laws and regulations that can affect the use of AI in providing legal services and further explores the possibilities of potential developments of those laws. Lastly this Note concludes the article by suggesting steps courts can take to protect clients and lawyers.

Part I. History and Technology Overview of AI

The first robotic machine dates to ancient times. As early as 400 B.C., making things fly became a reality when an Egyptian inventor, Archytus, introduced a flying wooden pigeon to the world. Since then, humans have been obsessed with making non-living things move, including with the first human-like robot in the first century A.D. A wide array of engineering designs have appeared, but these machines were all designed to perform routine tasks with the same mechanical methods. Not until the 20th century did engineers start to consider automation. The concept of AI emerged when Alan Turing published a paper about mathematical logic that mimics how humans make decisions with information. In the article, he suggested a machine with unlimited memory and a mechanism that can read from and write to that memory. Turing explicitly proposed a machine that could think. Later, the general public came to refer to Turing's idea as the universal "Turing machine," which is capable of improving itself with the information it obtains. In 1955, Allen Newell, Cliff Shaw, and Herbert Simon wrote the first AI computer program, Logic Theorist, and later presented it in the first AI conference—Dartmouth Summer Research Project on AI.

⁵ Darrell West & John Allen, *How Artificial Intelligence is Transforming the World*, BROOKINGS (Apr. 24, 2018), https://www.brookings.edu/research/how-artificial-intelligence-is-transforming-the-world/.

⁶ See Steinitz & Sahana, supra note 3.

⁷ Eric Roberts, *Robotics: A Brief History*, STANFORD,

https://cs.stanford.edu/people/eroberts/courses/soco/projects/1998-99/robotics/history.html (last visisted Jan. 24, 2022).

⁸ *Id*.

⁹ *Id*.

¹⁰ *Id*.

¹¹ Id.

¹² Rockwell Anyoha, *The History of Artificial Intelligence*, HARVARD (Aug. 28, 2017), https://sitn.hms.harvard.edu/flash/2017/history-artificial-intelligence/.

¹³ Alan Turing and the Beginning of AI, BRITANNICA, https://www.britannica.com/technology/artificial-intelligence/Alan-Turing-and-the-beginning-of-AI (last visited Jan. 24, 2022).

¹⁴ Alan M. Turing, Computing Machinery and Intelligence, 49 MIND 433 passim (1950).

¹⁵ Alan Turing and the Beginning of AI, *supra* note 13.

¹⁶ Anyoha, *supra* note 12.

At the end of the twentieth century, Deep Blue, an AI program, beat then world chess champion Garry Kasparov in a six game match.¹⁷ While Deep Blue made specific chess moves independently, programmers trained Deep Blue to make independent decisions and could review how Deep Blue made those decisions.¹⁸ With training and data, Deep Blue has at least partially found the most optimal plays at certain chess positions.¹⁹ And, because the decision-making processes are subject to review, Deep Blue is said to be an explainable AI.²⁰

Like chess, Go (or weiqi) requires two players to move pieces on the game board in turn.²¹ Originating in China, Go has been played by many for thousands of years.²² Go boards are made up of a 19 by 19 grid.²³ Go is far more complicated than chess since there are large quantities of possible moves at each position.²⁴ Go's complex nature prevented AI programs from finding an optimal strategy.²⁵ Furthermore, Go requires understanding the values of different moves, which is difficult to quantify with mathematical models.²⁶ Success in Go necessitates that players have an "intuition" of the correct moves.²⁷ AlphaGo, developed by International Business Machines (IBM), used a different approach than Deep Blue to beat then-world champion Go player Ke Jie.²⁸ IBM programmers used a neural network to build AlphaGo, allowing AlphaGo to play against itself repeatedly until it found the optimal strategy to play each position.²⁹ Neural networks use multiple layers of information to predict an output when given an input.³⁰ Because AlphaGo's neural network was nonlinear, programmers could not review the decision-making.³¹ AlphaGo's decision-making is then said to be a black box.³²

Both Deep Blue and AlphaGo employed machine learning, ³³ an advanced type of AI. ³⁴ However, the neural network approach AlphaGo employed was a significant advancement. ³⁵ It is important

¹⁷ CHESSGAMES, https://www.chessgames.com/perl/chessplayer?pid=29912 (last visited Jan. 24, 2022).

¹⁸ Adam Rogers, *What Deep Blue and AlphaGo Can Teach Us About Explainable AI*, FORBES (May 9, 2019, 7:45 AM), https://www.forbes.com/sites/forbestechcouncil/2019/05/09/what-deep-blue-and-alphago-can-teach-us-about-explainable-ai/?sh=7f3a4fb052fd.

¹⁹ John Menick, *Move 37: Artificial Intelligence, Randomness, & Creativity*, MOUSSE MAGAZINE (2016), https://johnmenick.com/writing/move-37-alpha-go-deep-mind.html.

²⁰ Rogers, *supra* note 18 (explainable in a way that the AI's decision-making can be explained by the programmer after reviewing the decision-making processes).

²¹ A Brief Hist. of Go, AM. Go Ass'N, https://www.usgo.org/brief-history-go (last visited Jan. 24, 2022).

²² Id

²³ Menick, *supra* note 19.

²⁴ *Id*.

²⁵ *Id*.

²⁶ *Id*.

²⁷ *Id*.

²⁸ Rogers, *supra* note 18.

²⁹ Id.

³⁰ What is Artificial Intelligence (AI), IBM (Jun. 3, 2020), https://www.ibm.com/cloud/learn/what-is-artificial-intelligence (last visited Apr. 25, 2023). Non-linear neural network is when the neural network is more than one layer of nodes and that the layers require activation of prior layer to the latter layer, like neurons.

³¹ Rogers, *supra* note 18.

 $^{^{32}}$ Id.

³³ Rogers, *supra* note 18.

³⁴ Sindhu Velu et al., An Empirical Science Research on Bioinformatics in Machine Learning, 7 J. Mechs Continua & Mathematical Scis (Special Issue) 86 (2020).

³⁵ *Id*.

to understand the basic terminologies of AI (machine learning, neural network, etc.) to further this discussion, as the current AI or possible future AI use in law are tied to these different areas of AI. AI has three subsets: Artificial Narrow Intelligence (ANI), Artificial General Intelligence (AGI), and Artificial Super Intelligence (ASI). ³⁶ In general, programmers refer to ANI as weak AI because ANI is designed to only perform specific narrow tasks. ³⁷ For example, AlphaGO and Deep Blue are weak AIs. ³⁸ Programmers refer to AGI and ASI as strong AI. ³⁹ Stronger AIs perform tasks like humans in general. ⁴⁰ Specifically, AGI can perform tasks and have intelligence similar to humans, while ASI is smarter than humans. ⁴¹ Currently, programmers have not successfully constructed AGI and ASI yet. ⁴²

Within the field of AI, machine learning is a subset.⁴³ Machine learning programs use mathematical formulations to perform tasks and are coded to improve their ability to perform those tasks when given additional information.⁴⁴ For example, online music services often use machine learning algorithms to process information about the songs someone listens to; the music service will then make recommendations based on the user's preferences.⁴⁵

Machine learning is further divided into supervised machine learning, semi-supervised machine learning, and unsupervised machine learning. And unsupervised machine learning. Recall that machine learning like Deep Blue seeks to obtain an optimal solution. The biggest difference between the three is human intervention: supervised machine learning uses labeled data sets containing inputs and outputs. Supervised machine learning requires the teacher to label the outputs as desired. For instance, imagine a function f(x) with the x as the independent variable (input) and y as the dependent variable (output), and the function is meant to double the input. The teacher inputs 5 as x. Since the teacher wants f(x) to double the input, the teacher will label the output as 10.51 This way, the teacher corrects the output to the desired value and allows the code to learn to calculate the desired value. Conversely, unsupervised machine learning does not contain the desired value y

³⁶ Eda Kavlakoglu, *AI vs. Machine Learning vs. Deep Learning vs. Neural Networks: What's the Difference?*, IBM (May 27, 2020), https://www.ibm.com/cloud/blog/ai-vs-machine-learning-vs-deep-learning-vs-neural-networks.

³⁷ *Id*.

³⁸ *Id*.

³⁹ *Id*.

⁴⁰ *Id*.

⁴¹ *Id*. ⁴² *Id*.

⁴³ *Id.*; see also Rogers, supra note 18.

⁴⁴ Partick Grieve, *Deep learning vs. machine learning: What's the Difference?*, ZENDESK BLOG (Mar. 8, 2022), https://www.zendesk.com/blog/machine-learning-and-deep-learning.

⁴⁶ Jason Brownlee, *Supervised and Unsupervised Machine Learning Algorithms*, MACH. LEARNING MASTERY (Aug. 20, 2020), https://machinelearningmastery.com/supervised-and-unsupervised-machine-learning-algorithms.

⁴⁷ Menick, *supra* note 19.

⁴⁸ Brownlee, *supra* note 46.

⁴⁹ *Id*.

⁵⁰ *Id*.

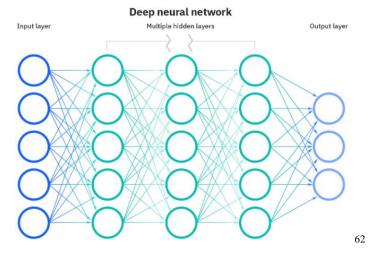
⁵¹ *Id*.

⁵² *Id*.

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for each x.⁵³ Semi-supervised machine learning is between the two, having only some outputs labeled and others unlabeled.⁵⁴

Supervised machine learning often employs a neural network for deep learning.⁵⁵ Simply put, neural networks mimic the human brain with different layers and nodes because the nodes, like neurons, in the prior layer transmit information to the nodes in the next layer.⁵⁶ Only when the node in the prior layer receives a signal higher than the threshold needed will the node send a signal to the next layer, in the same way that neurons light up and signals information.⁵⁷ This way, only the signals exceeding the threshold will be received by the next layer, acting like a filter.⁵⁸ Eventually, by controlling what type of signal passes through each layer, users can arrive at the desired signal at the output level.⁵⁹ Lastly, deep learning is a type of neural network that has more than three layers.⁶⁰ The middle layers are all called hidden layers.⁶¹



In the upcoming Parts, these terminologies are linked to different uses of the AI in the field of law and how different uses have benefits and shortcomings.

Part II. Current & Proposed Uses of AI in the Field of Law

Although mechanical machines such as autopilots and self-driving cars use AI,⁶³ machine learning is rapidly developing.⁶⁴ Many industries entrust machine learning's ability to perform

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⁵³ *Id*.

⁵⁵ What is Supervised Learning, IBM, https://www.ibm.com/cloud/learn/supervised-learning, (last visited Apr. 15, 2023).

⁵⁶ *Id*.

⁵⁷ *Id*.

⁵⁸ *Id*.

⁵⁹ *Id*.

⁶⁰ Kavlakoglu, supra note 36.

⁶¹ *Id*.

⁶² Id.

⁶³ AI & Robotics, TESLA, https://www.tesla.com/AI (last visited Apr. 15, 2023).

⁶⁴ Rogers, *supra* note 18.

different jobs, such as stock trading and marketing,⁶⁵ transforming our world. Like using AI programs in stock trading, lawyers have started using software that can perform certain legal tasks.⁶⁶ These include legal due diligence, litigation prediction, data trend analytics, document generation, intellectual property portfolio reviews, automatic billing,⁶⁷ and e-discovery,⁶⁸ among others.

a. Legal Due Diligence

In mergers and acquisitions deals, lawyers review contracts and documents to gain insight about the legal framework and financial statutes related to a business.⁶⁹ After reviewing all relevant documents, lawyers assess any potential legal risks and assist the buyer with appropriate legal forms and closing structures.⁷⁰ In contrast with financial due diligence, legal due diligence involves reading, tracking, and comprehending written natural language and reasoning, instead of objective numbers; additionally, document review can involve thousands of contracts, which increases the difficulties for lawyers.⁷¹

The traditional method for lawyers to review documents involves reading documents in a physical data room, but software now helps lawyers to collaborate with local counsel in a virtual data room. All further eases the process by extracting data and sorting documents into different groups, such as jurisdictions and contract types. The automation helps lawyers search for different things quickly, like contract clauses, but lawyers must still review the information themselves. This automation speeds up the process for lawyers to review documents, but does not replace lawyers' legal analysis of documents.

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⁶⁵ See ITP, Man vs Machine: How AI robots are Taking over Online Trading, ARABIAN BUS. (Aug. 26, 2021), https://www.arabianbusiness.com/money/money-wealth/alternative-assets/467610-man-vs-machine-how-ai-robots-are-taking-over-online-trading; see also What is AI Marketing?, MARKETING EVOLUTION (July 20, 2022), https://www.marketingevolution.com/marketing-essentials/ai-marketing.

⁶⁶ Daniel Faggella, *AI in Law & Legal Practice – a Comprehensive View of 35 Current Applications*, EMERJ A.I. RSCH. (Sept. 7, 2021), https://emerj.com/ai-sector-overviews/ai-in-law-legal-practice-current-applications. ⁶⁷ *Id.*

⁶⁸ See Text IQ at Relativity, RELATIVITY, https://www.relativity.com/data-solutions/textiq (last visited Mar. 14, 2023).

⁶⁹ How AI is changing legal due diligence, IMPRIMA (Dec. 4, 2020), https://www.traverssmith.com/media/6382/how-ai-is-changing-legal-due-diligence.pdf (last visited Jan. 24, 2022).

⁷⁰ *Legal Due Diligence*, DIVESTOPEDIA, https://www.divestopedia.com/definition/6619/legal-due-diligence (last visited Apr. 15, 2023).

⁷¹ How AI is changing legal due diligence, Supra note 69, at 2-3.

⁷² *Id*. at 3.

⁷³ *Id*. at 4.

⁷⁴ *Id*.

b. Litigation Prediction

Clients frequently ask lawyers whether they will ultimately win their trial.⁷⁵ Lawyers also consider whether the case will win at trial to assess settlements.⁷⁶ Researchers are currently using AI to predict a case's outcome.⁷⁷ Apart from the legal merits of the case, which lawyers consider, machine learning researchers use other parameters like case backgrounds, variables pertaining to specific judges, and chronological variables.⁷⁸ In predicting U.S. Supreme Court cases, researchers have achieved over 70% accuracy.⁷⁹

Much like using AI to predict case outcomes, clients could also seek to predict whether there could be a lawsuit. Therefore, researchers have also used machine learning to predict the likelihood of litigation. ⁸⁰ In evaluating the likelihood of litigation, researchers consider parameters pertaining to specific lawsuit types like a company's industry membership, growth, and size in securities class action lawsuits. ⁸¹ With different research results, lawyers could potentially use these predictions to aid their own legal analysis in predicting litigation outcomes or likelihood. ⁸²

c. Date Trend Analytics

Instead of predicting a case's outcome, data trend analytics AIs highlight pertinent information and provide lawyers with useful trends in certain judges' rulings on particular issues by reading case laws. ⁸³ The information does not stop at judges' rulings; the machine learning algorithm also helps lawyers find other relevant information like a party's background, opposing counsel's background, and circuit rulings. ⁸⁴

By processing natural language in case law, AI also assists lawyers in legal research by improving the results of each search.⁸⁵ The AI improves searches by recognizing the relevant laws and cases that may be of use to support an argument.⁸⁶ The AI also predicts relevant cases by understanding what lawyers previously have used for certain fact patterns.⁸⁷ This type of AI

⁷⁵ Phil Sokowicz, *Five Ways Legal Teams Can Begin to Leverage Artificial Intelligence*, FORBES (Oct. 12, 2021, 2:04 PM), https://www.forbes.com/sites/forbesbusinesscouncil/2021/10/12/five-ways-legal-teams-can-begin-to-leverage-artificial-intelligence/?sh=750b083d7498.

⁷⁶ *Id*.

⁷⁷ Faggella, *supra* note 66.

⁷⁸ Daniel Martin Katz et al., A General Approach for Predicting the Behavior of the Supreme Court of the United States, 12(4) PLOS ONE 1, at 4 (2017).

⁷⁹ *Id*

⁸⁰ Gene Moo Lee et al., *Predicting Litigation Risk via Machine Learning*, HARVARD L. SCH. F. ON CORP. GOVERNANCE, Dec. 2020, at 1, 16 https://dx.doi.org/10.2139/ssrn.3740954.

⁸¹ *Id.* at 1.

⁸² Faggella, supra note 66.

⁸³ *Id*.

⁸⁴ *Id*.

⁸⁵ Alison Wilkinson, *How AI is Revolutionizing Legal Research*, KIRA (Apr. 13, 2020), https://kirasystems.com/learn/how-ai-is-revolutionizing-legal-research.
⁸⁶ Id.

⁸⁷ *Id*.

assistance provides information like ruling trends and relevant cases for lawyers to consider. However, the lawyers still produce their own legal analysis.

d. Document Generation

AI also has the ability to assist lawyers in creating legal documents. Lawyers can use the machine learning software to fill out contracts by inputting data. For example, the algorithm can complete nondisclosure agreement (NDA) templates. The software also streamlines the NDA process by allowing parties to sign the agreements electronically. On the process by allowing parties to sign the agreements electronically.

Another use of AI is to generate legal writing. Since machine learning can understand written natural language⁹¹ and find patterns in different writings,⁹² the AI can process the texts in memorandums of law and find patterns. Users can then use the AI to generate legal memorandums by inputting certain information, like an NDA.⁹³ Even if the AI cannot generate an entire memorandum of law, the AI may still be able to generate parts of it, such as the introduction or the conclusion.

e. Intellectual Property Portfolio Review

AI will also aid inventors in determining if their invention may be patented. An invention must be novel and not be available to public to be patentable, with a few exceptions. ⁹⁴ Before an applicant applies for a patent with the United States Patent and Trademark Office (USPTO), the applicant often conducts a patentability search. ⁹⁵ The goal of this search is to determine if this invention has been patented or is otherwise available to the public. ⁹⁶ AI can assist patentability searches by analyzing the patent application and looking through relevant technical literature. ⁹⁷ Additionally, the software can help patent attorneys to draft their patent application by proofing the application for errors. ⁹⁸

f. Automatic Billing

Additionally, AI may help lawyers with the day-to-day operations of their practice. For example, AI can aid in automating the billing process for lawyers. ⁹⁹ One billing software can track e-mails and other lawyer activities to include them in the invoices. ¹⁰⁰ Billing can also be centralized, and

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⁸⁸ Faggella, supra note 66.

⁸⁹ *Id*.

⁹¹ Wilkinson, *supra* note 85.

⁹² Faggella, *supra* note 66.

⁹³ Id.

⁹⁴ 35 U.S.C. § 102.

⁹⁵ Faggella, *supra* note 66.

⁹⁶ Vic Lin, What is a Patentability Search (Novelty Search)?, PAT. TRADEMARK BLOG,

https://www.patenttrademarkblog.com/patentability-search-novelty-search (last visited Mar. 14, 2023).

⁹⁷ Faggella, *supra* note 66.

⁹⁸ *Id*.

⁹⁹ *Id*.

¹⁰⁰ *Id*.

the software can adjust billing items automatically. ¹⁰¹ Billing assistance helps to reduce billing costs and increase accuracies. ¹⁰²

g. E-Discovery

In the discovery stage of a lawsuit, lawyers obtain relevant nonprivileged information. ¹⁰³ Lawyers review and determine whether documents are relevant and privileged. ¹⁰⁴ Machine learning algorithms can analyze documents to assess whether they qualify as relevant and nonprivileged, or the algorithms can prompt lawyers to review certain documents more closely. ¹⁰⁵ Relevance involves the probative value of certain facts, ¹⁰⁶ which is a legal conclusion. Similarly, the determination of privilege is also a legal conclusion. ¹⁰⁷ Because making decisions about relevance and privilege involves legal conclusions, the AI inevitably engages in legal analysis for the lawyer. In the case of prioritizing review documents, the software leaves the final decisions to the lawyer, which is more like the previously mentioned legal due diligence AI.

Part III. How Using AI Benefits Litigants in the Field of Law

With the United States being at the lower end of the spectrum of accessibility to the legal system, ¹⁰⁸ the Arizona Supreme Court innovates the legal field with efforts to decrease legal costs. ¹⁰⁹ In hopes of decreasing legal costs, the Court abolished the American Bar Association's Ethics Rule 5.4, ¹¹⁰ and allowed nonlawyers to provide some legal services. ¹¹¹ Another way to decrease litigation costs substantially is to use AI in different areas of legal practice. ¹¹² There are other benefits to using AIs in legal services which eventually may result in a decrease in litigation costs. ¹¹³

One benefit of using AI is to save time for lawyers. ¹¹⁴ With the modern computing power, AI can extract and analyze the same amount of information in a shorter time frame compared to lawyers. ¹¹⁵ AI engines accomplish this through quickly searching and identifying relevant

¹⁰¹ *Id*.

¹⁰² Id

¹⁰³ FED R. CIV. P. 26(b); see also ARIZ. R. CIV. P. 26(b).

¹⁰⁴ What is Document Review?, ZAPPROVED, https://zapproved.com/blog/what-is-document-review (last visited Jan. 24, 2022).

¹⁰⁵ Ajith Samuel, *Artificial Intelligence Will Change E-Discovery in the Next Three Years*, L. TECH. TODAY (Apr. 24, 2019), https://www.lawtechnologytoday.org/2019/04/artificial-intelligence-will-change-e-discovery-in-the-next-three-years.

¹⁰⁶ Barkley v. McKeever Enter., Inc., 456 S.W.3d 829, 843 (Mo. 2015).

¹⁰⁷ United States v. Zolin, 491 U.S. 554, 565 (1989).

¹⁰⁸ Robert S. Teuton, *One Small Step and a Giant Leap: Comparing Washington*, D.C.'s Rule 5.4 with Arizona's Rule 5.4 Abolition, 65 ARIZ. L. REV. 223 (2023).

¹⁰⁹ *Id.*; see also Steinitz, supra note 3.

¹¹⁰ Teuton, *supra* note 108, at 224.

¹¹¹ ACJA § 7-208.

¹¹² See Faggella, supra note 66.

¹¹³ Avaneesh Marwaha, *Seven Benefits of Artificial Intelligence for Law Firms*, L. TECH. TODAY (July 13, 2017), https://www.lawtechnologytoday.org/2017/07/seven-benefits-artificial-intelligence-law-firms. ¹¹⁴ *Id.*

¹¹⁵ *Id*.

information.¹¹⁶ And through saving lawyers' time, AIs eventually decrease costs for clients and increase access to justice.¹¹⁷ Additionally, when reviewing thousands of documents, such as working in legal due diligence, ¹¹⁸ lawyers often must conduct tedious reviews that involve minimum legal analysis.¹¹⁹ In conducting mundane readings, lawyers experience fatigue, boredom, and distraction.¹²⁰ On the other hand, AI engines do not experience those feelings, performing more consistently throughout the entire task, which increases the quality of work product.¹²¹ Specifically, some software can maintain cross-references in documents without errors, maintaining language consistency.¹²² The lawyer then can save time on checking for errors and saves costs for the client.¹²³ Moreover, when lawyers focus on work involving legal analysis and higher-level work, they are happier with their work and experience less stress and burnout.¹²⁴ And more lawyers for the same amount of work helps lawyers to have more personal time to maintain their mental health.

The previous discussion talked about how researchers are constructing algorithms that can predict litigation outcomes with fairly high accuracies, and algorithms that can predict litigation risks. ¹²⁵ When a party applies prediction algorithms, the lawyer can identify the winning chance or litigation risks early in the matter. ¹²⁶ This, in turn, allows the lawyer to devise strategies to avoid lawsuits and risks; ¹²⁷ or if the lawyer decides that the risk of losing is sufficiently high, ¹²⁸ then the party may choose to settle. Having a more optimized strategy, the client will have lower litigation costs. ¹²⁹

With video conferencing becoming increasingly popular since the pandemic, ¹³⁰ online court hearings are also booming. ¹³¹ When online court proceedings are held, the court can use AI that understands natural language. Using artificial intelligence that understands natural language, like the ones in legal due diligence, ¹³² the court can record and transcribe the court record without the need for a stenographer. ¹³³ When there are court proceedings involving foreign-language speakers, the AI software can translate the spoken language to the those that the court and parties

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<sup>116</sup> Id.
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¹¹⁷ *Id*.

¹¹⁸ *How AI is changing legal due diligence, supra* note 69.

¹¹⁹ Marwaha, *supra* note 113.

¹²⁰ See id.

¹²¹ *Id*.

¹²² *Id*.

 $^{^{123}}$ Id

¹²⁴ Soojung Chang, *The Benefits of Using Artificial Intelligence in Law*, ROSS (Apr. 20, 2018), https://blog.rossintelligence.com/post/benefits-ai-law.

¹²⁵ Katz, supra note 78.

¹²⁶ Marwaha, *supra* note 113.

¹²⁷ *Id*.

¹²⁸ Katz, supra note 78.

¹²⁹ Marwaha, *supra* note 113.

¹³⁰ 20 Astonishing Video Conference Statistics for 2021, DIGITAL IN THE ROUND (July 10, 2021), https://digitalintheround.com/video-conferencing-statistics.

¹³¹ Jamie Foote, *AI: Delivering Real Benefits to Lawyers & Courts*, Lawyer Monthly (Sep. 30, 2020), https://www.lawyer-monthly.com/2020/09/ai-delivering-real-benefits-to-lawyers-and-courts.

¹³² See How AI is changing legal due diligence, supra note 69 at 4.

¹³³ Foote, *supra* note 131.

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can understand in real-time. ¹³⁴ Through using the technology to manage and process court proceedings with the support of technology, the court and the client can both save time and costs on court records. ¹³⁵

Other than benefits that involve decreasing litigation costs, using AI software can also benefit litigants by allowing more time for lawyers to communicate important issues with their clients. Because AI completes tasks that are more time consuming and low-level, the lawyers are more available to engage in critical thinking about the case and explore more creative strategies for the client. Lawyers can then sufficiently communicate these strategies and explain the law to the client. 138

Many benefits of using AI in the field of law are intertwined because most uses relate to performing some sort of low-level mundane work. Most of them can eventually lead to a decrease in litigation costs by prioritizing lawyers in more creative works, a massive benefit for the client. However, without direct monetary decrease still helps lawyers to be more available to their client. However, with such benefits, uses of AI may also cause issues for courts and litigants. In the following chapter, the issues of using AI are discussed.

Part IV. Potential Challenges with Applying AI in the Field of Law

Within a minute of taking off, the Captain and the First-Officer on Ethiopian Airlines flight 302 noticed deviations of the left and right angle of attack (AOA) values. ^{142, 143} Shortly after, engaging the autopilot (AP) onboard controlling the (AOA), the Captain requested the AP to be engaged. ¹⁴⁴ Around thirty seconds after, the Captain advised the First-Officer that they are having flight control issues. ¹⁴⁵ However, the aircraft nosed down four times without any commands from the pilots, despite engaging the AP. ¹⁴⁶ Eventually, the crew completely lost control of the aircraft and could not prevent it from plummeting its altitude. The aircraft crashed 6 minutes after taking off, ¹⁴⁷ losing the entire flight crew and all of its passengers, totaling 157 souls onboard. ¹⁴⁸

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134 Id.
135 See id.
136 Marwaha, supra note 113.
137 Id.
138 Id.
139 Id.
140 Id.
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¹⁴² FED. DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF TRANSP., AIRCRAFT ACCIDENT INVESTIGATION BUREAU INTERIM INVESTIGATION REPORT ON ACCIDENT TO THE B737-8 (MAX) REGISTERED ET-AVJ OPERATED BY ETHIOPIAN AIRLINES ON 10 MARCH 2019, at 17 (2020).

¹⁴³ GARY A. FLANDRO ET AL., BASIC AERODYNAMICS: INCOMPRESSIBLE FLOW 171 (Cambridge Univ. Press, 2012) (The angle of attack is "the angle between the freestream and the chord line," where the chord line is the connection between the leading edge and the trailing edge of the cross-section of an aircraft wing).

¹⁴⁴ FED. DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF TRANSP., *supra* note 142, at 22.

¹⁴⁵ *Id.* at 25.

¹⁴⁶ *Id.* at 25-30.

¹⁴⁷ *Id*. at 18.

¹⁴⁸ *Id*.

A few days after this tragic incident, the aircraft in question, Boeing 737 Max 8, had been completely grounded for safety concerns. Had what is different about this new variant of Boeing 737 is its new control system, Maneuvering Characteristics Augmentation System (MCAS). The MCAS is an AI system that can push the aircraft's nose down after the new aircraft model gained more natural tendency to nose up due to the new location and shape of the engine. The nose up momentum can compromise the aircraft's safety if the AOA achieves stalling angle. However, Ethiopian Airlines flight 302's AOA sensor malfunctioned and transmitted the incorrect values to the system. Then MCAS forced the aircraft to nose down even though the aircraft was not at stalling angle, eventually crashing the aircraft. A failing AI can lead to severe results.

Similarly, when a litigant loses the trial, they can suffer huge financial losses. When a criminal defendant loses the trial, they may face severe legal penalties. Certainly when lawyers use the AI for motions or work products without proofreading, they run a risk of a failing AI, resulting in severe results for their clients. However, will there only be sunshine and laughter if AIs perform exactly how they should? Can an AI compromise a party's winning chance without failing altogether? The rest of the chapter will explore the risk possibilities of impact even when AIs do not technically malfunction.

a. Deep Learning Presents Bias in Results

Recall that machine learning algorithms use the information to improve themselves and output useful music preference predictions. Similarly, legal research algorithms use general trends of legal arguments to make suggestions to lawyers. When given data, machine learning algorithms improve themselves at performing these tasks. But when machine learning algorithms analyze data, either by extraction or feeds by human interventions, biases can still exist or otherwise be created by the AI. For instance, Google's targeted advertising exhibited gender-bias when the algorithm produced a considerably larger amount of high paying positions to men than women. The suggestions are the suggestions and the suggestions are the suggestions and the suggestions are the suggestions and the suggestions are suggestions are the suggestions are the suggestions are the suggestions are the suggestions are suggestions.

155 Grieve, supra note 44.

¹⁴⁹ Denise Lu et al., *From 8,600 Flights to Zero: Grounding the Boeing 737 Max 8*, N.Y. TIMES (Mar. 13, 2019), https://www.nytimes.com/interactive/2019/03/11/world/boeing-737-max-which-airlines.html.

¹⁵⁰ Jon Ostrower, What is the Boeing 737 Max Maneuvering Characteristics Augmentation System?, AIR CURRENT (Nov. 13, 2018), https://theaircurrent.com/aviation-safety/what-is-the-boeing-737-max-maneuvering-characteristics-augmentation-system-mcas-jt610.

¹⁵¹ Ostrower, *supra* note 150.

¹⁵² John Mongan & Marc Kohli, *Artificial Intelligence & Human Life: Five Lessons for Radiology from the 737 MAX Disasters*, RADIOLOGY: ARTIFICIAL INTELLIGENCE, Mar. 2020, at 1, 1.

¹⁵³ FED. DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF TRANSP., supra note 142, at 266.

¹⁵⁴ *Id*. at 1.

¹⁵⁶ Wilkinson, *supra* note 85.

¹⁵⁷ Menick, *supra* note 19.

¹⁵⁸ Eirini Ntoutsi et al., *Bias in Data-Driven Artificial Intelligence Systems—an Introductory Survey*, 10 WIRES: DATA MINING AND KNOWLEDGE DISCOVERY 3, at 1-2 (2020). ¹⁵⁹ *Id.* at 2.

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Biases in machine learning can be attributed to mainly three different causes, problem framing, data collection, and data preparation. For example, when customers' credit scores are at issue, the company must determine its goal to achieve; whether to maximize profit or to maximize the rate of loan payments. In the sense of legal research, one example could be to either prioritize relevant case law or prioritize relevant fact patterns.

When it comes to data collection, machine learning can create inherent biases essentially in two different ways, by either inputting unrealistic data sets or data sets with existing biases. ¹⁶² For instance, in the case of predicting behavior of the U.S. Supreme Court, the machine learning algorithm is optimized with cases from 1816 to 2015. ¹⁶³ The algorithm is naturally worse at predicting any future Supreme Court cases participated in by Justice Gorsuch, Justice Kavanaugh, and Justice Barrett because those three Justices did not decided the cases being evaluated. ^{164, 165} Existing biases happen when the data set itself has biases. ¹⁶⁶ Recall that data sets contain labels by teachers of the algorithm. ¹⁶⁷ When the teacher has certain biases, like an employer employing only certain backgrounds against others, the existing biases of data sets can be transferred from the teacher. ¹⁶⁸ Systemic bias can also act as pre-existing biases in machine learning. ^{169, 170} For example, an AI software assigning scores of possibilities of criminal responsibilities has exhibited racial bias. ¹⁷¹ What's worse, machine learning algorithms may amplify pre-existing biases in the social system, resulting in worse inequalities or discriminations. ¹⁷²

The third cause of bias happens during data preparation, when the teacher has to consider and determine the exact attributes to input to the algorithm. ¹⁷³ In the case of predicting the Supreme Court decisions, the researchers considered attributes like the identity of the Justice and identities

¹⁶⁰ Karen Hao, *This is How AI Bias Really Happens–And Why It's So Hard to Fix*, MIT Tech. Rev. (Feb. 4, 2019), https://www.technologyreview.com/2019/02/04/137602/this-is-how-ai-bias-really-happensand-why-its-so-hard-to-fix/?ref=hackernoon.com.

¹⁶¹ *Id*.

¹⁶² *Id*.

¹⁶³ Katz et al., *supra* note 78, at 1.

¹⁶⁴ Hao, *supra* note 161.

¹⁶⁵ Justices 1789 to Present, SUP. CT. OF THE U.S., https://www.supremecourt.gov/about/members_text.aspx (last visited Apr. 15, 2023) (Justice Gorsuch was appointed in 2017; Justice Kavanaugh was appointed in 2018; Justice Barrett was appointed in 2020).

¹⁶⁶ Hao, *supra* note 161.

¹⁶⁷ Menick, *supra* note 19.

¹⁶⁸ Hao, supra note 161.

¹⁶⁹ *Id*.

¹⁷⁰ See Brandon Vaidyanathan, Systemic Racial Bias in the Criminal Justice System is Not a Myth, PUBLIC DISCOURSE (June 29, 2020), https://www.thepublicdiscourse.com/2020/06/65585.

¹⁷¹ Julia Angwin et al., *Machine Bias*, PRO PUBLICA (May 23, 2016), https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing; *see also* William McGurn, *Systemic Bias Against Asians*, WALL St. J. (Dec. 6, 2021, 6:27 PM), https://www.wsj.com/articles/systemic-anti-asian-bias-san-francisco-merit-test-sat-harvard-california-minorities-racism-11638830364 (pointing out that the pre-existing racial bias in the current criminal system carries into the Al assigning possibilities of criminal responsibilities).

¹⁷² Ntoutsi et al., *supra* note 159, at 3.

¹⁷³ Hao, *supra* note 161.

of the parties.¹⁷⁴ However, research has shown that weather may affect judges' decisions.¹⁷⁵ Then a question arises as to whether including temperature changes may increase the accuracy of the prediction by the algorithm.¹⁷⁶

The three biases are difficult to correct because biases can be hard to detect in the AI process. 177 In the case of gender bias in employment hiring algorithms, the algorithm obtained a bias towards the wordings more attributive to men than women, causing inherent prejudice against women. ¹⁷⁸ Additionally, deep learning algorithms often use data sets in pairs, one for improving capabilities and one for validating capabilities. 179 When the data sets contain pre-existing biases, the validating data sets reaffirm the biases developed in the algorithm. ¹⁸⁰ In the problem framing, the teacher introduces inherent biases in framing problems because the framing itself lacks social context. 181 Examples would include research about litigation risks that is conducted about based on security class action lawsuits, ¹⁸² which may not be accurate in predicting litigation risks for breach of contract lawsuits. 183 Lastly, a huge challenge for researchers is how to define fairness. 184 Many researchers have argued for different ways to define fairness in terms of mathematics, including categories like "predicted outcome" and "predicted and actual outcome[s]."185 Researchers label the outcome with predicted results, in hope of attaining "true" results by achieving equilibrium rates between false positive and false negative. 186 Social perception of fairness varies over time as the society progresses, which further results in biases and inaccuracies, especially for older algorithms. 187

b. Data Accessibility Limits the Development of Machine Learning Algorithms

AI improves itself through data training, which requires a large number of data sets with high quality. ¹⁸⁸ Collection of data presents two main challenges to AI developers, including maintaining the amount and quality of data and ethically obtaining data sets. ¹⁸⁹ With a whopping 15 percent quality data access rate, some users trying to develop AI tools fail to advance AI

¹⁷⁴ Katz et al., *supra* note 78 at 3.

¹⁷⁵ See Anthoney Heyes & Soodeh Saberian, *Temperature & Decisions: Evidence from 207,000 Ct. Cases*, 11 AM. ECON. J.: APPLIED ECON. 238, 238 (2019), https://pubs.aeaweb.org/doi/pdfplus/10.1257/app.20170223. ¹⁷⁶ See generally Hao, *supra* note 161.

¹⁷⁷ *Id*.

¹⁷⁸ *Id*.

¹⁷⁹ *Id*.

¹⁸⁰ *Id*.

¹⁸¹ *Id*.

¹⁸² Lee et al., *supra* note 80.

¹⁸³ Hao, *supra* note 161.

¹⁸⁴ Ntoutsi et al., *supra* note 159.

¹⁸⁵ *Id.* at 5.

¹⁸⁶ *Id*.

¹⁸⁷ Hao, *supra* note 161.

¹⁸⁸ See Gregory Vial et al., The Data Problem Stalling AI, 62 MIT SLOAN MGMT. REV. 47 (Dec. 08, 2020).

¹⁸⁹ Mohammad Reza Kameli, *The Dichotomy Between Safeguarding Data Privacy & Promoting Individualized Healthcare Using Artificial Intelligence: How Mod. Reg. Miss the Mark & New Standards Can Reconcile the Two*, 4 ARIZ. L. J. EMERGING TECH. 1, 4, http://azlawjet.com/2020/11/the-dichotomy-between-safeguarding-data-privacy-and-promoting-individualized-healthcare-using-artificial-intelligence.

prototypes out of the testing stage. 190 Meanwhile, policy concerns require developers to balance the accessibility with ethical access, like when data users must access data by obtaining consent. 191 Similarly, data accessibility presents challenges to developing AI in the field of law. For example, in the case of improving legal research for lawyers, AI uses data from other lawyers' research results, 192 which falls under the limitations of writings available to the public. Additionally, like raising concerns for healthcare data privacy issues surrounding AI, 193 by collecting lawyers' research keywords or views, strategies may be revealed to the data collection engine, raising confidentiality concerns.

c. Algorithms Cannot Perform Tasks Intelligently in Different Situations Like Humans Can

In 2021, a New Jersey district court in a patent infringement action rewarded the plaintiff damage enhancement of three times the original \$125 million in damages found. 194 The court rewarded the damage enhancement in accordance with the judge's discretion to "increase the damage up to three times the amount found."195 However, AIs lack any capabilities of sophisticated intelligence like directions because weak AIs cannot perform tasks like humans do. ¹⁹⁶ Although some argue for the benefits of AI judges strictly following the law, AIs are not competent in issuing discretions when the law so requires. ¹⁹⁷ One argument in favor is that AIs can use factors to grant relevant discretions in exceptional cases. However, recall that the mechanism of AIs is to use prior data to predict future outcomes. Exceptional cases, by definition, are hard to come by, resulting in a lack of relevant or quality data. This would compromise AI's capabilities for discretion. AIs do not have moral values and cannot comprehend the concept of justice. 198 Therefore AI programs cannot simply execute programing codes in mathematic logic in hopes of a fair judicial outcome. 199 Additionally, AI's lack of comprehension may hinder legal applications other than judicial decisions. One example may be the intellectual property patentability search for compliance with the novelty requirement of a patent.²⁰⁰ AIs cannot comprehend the innovative value of the new patent, and thus it will fail in determining a patent's novelty value.²⁰¹ Another example can be contemplated under the proposed use of AI with memorandum composition. In composing a statement of facts, the writer

¹⁹⁰ Paramita Ghosh, *Challenges of Data Quality in the AI Ecosystem*, DATAVERSITY (Nov. 12, 2019), https://www.dataversity.net/challenges-of-data-quality-in-the-ai-ecosystem/#.

¹⁹¹ Menick, *supra* note 19, at 5.

¹⁹² Wilkinson, *supra* note 85.

¹⁹³ Kameli, *supra* note 190, at 8.

¹⁹⁴ EagleView Tech., Inc. v. Xactware Solutions., Inc., 522 F. Supp. 3d 40, 55 (D.N.J. 2021).

¹⁹⁵ 35 U.S.C. § 284.

¹⁹⁶ Kavlakoglu, s*upra* note 36.

¹⁹⁷ Alexander Evstratov & Igor Guchenkov, *The Limitations of Artificial Intelligence (Legal Problems)*, 4 L. ENF'T REV. 13, 15 (Jul. 3, 2020), https://doi.org/10.24147/2542-1514.2020.4(2).13-19.

¹⁹⁸ JOHN P. MUELLER & LUCA MASSARON, ARTIFICIAL INTELLIGENCE FOR DUMMIES 131 (Katie Mohr et al. eds., 1st ed. 2018).

¹⁹⁹ Marina Dneprovskaya & Sergey Abramitov, *Digital Technology in Activities of Russian Courts: Prospects of Artificial Intelligence Application*, 138 ADVANCES IN ECON., BUS. AND MGMT. RSCH. 209, 210 (May 5, 2020), https://doi.org/10.2991/aebmr.k.200502.034.

²⁰⁰ Faggella, *supra* note 66.

²⁰¹ MUELLER & MASSARON, *supra* note 199.

must consider both legal relevance and emotional relevance when including facts. 202 However, AI programs cannot properly evaluate emotional significance in facts simply because AIs cannot comprehend emotions. 203

Part V. Relevant Rules and Laws in Using AI to Provide Legal Services a. Using AI Must Comply with Professional Responsibilities for Lawyers

As this Note has discussed, the AI programs are essentially taking some portion of the work from lawyers, if not performing lawyers' work entirely. To survey relevant rules and regulations, one must consider regulations on the legal professions. Although lawyers must pass a bar exam, which covers the ability for legal analysis, ethical responsibilities, and moral responsibilities, lawyers have not always been regulated this way. As time passes, the legal profession has become more and more regulated. Although state supreme courts have their own regulations of lawyers, tates adopt the American Bar Association's Model Rules of Professional Conduct (ABA Model Rules), or at least models after it. In this case, AI can be considered as a lawyer-equivalent or a nonlawyer-equivalent providing legal services. Either way, the AI user must still comply with the ABA Model Rules.

i. ABA Model Rules Regarding Competency

Mainly three different ABA Model Rules may be implicated when lawyers decide to use AI programs in assisting legal work, Model Rules 1.1, 1.4, and 1.6.²¹⁰ Model Rules 1.1 requires competent legal services when a lawyer represents a client.²¹¹ Specifically, the technologies a lawyer uses, here the AI programs, also fall under this rule.²¹² For lawyers, violation of competency could be easier to discern, e.g., lack of relevant legal knowledge.²¹³ But more questions arise when we try to define competency for a computer algorithm. Under California Competency Rules, a lawyer "shall not intentionally, recklessly, with gross negligence or

²⁰² Legal Memos Made Easy, POINT FIRST LEGAL WRITING

http://pointfirstwriting.com/legal_memo/write_memo/facts.html#b_purposeful-complete (last visited Jan. 24, 2022). MUELLER & MASSARON, *supra* note 199.

²⁰⁴ Faggella, *supra* note 66.

²⁰⁵ See Benjamin Barton, Why Do We Regulate Lawyers?: An Economic Analysis of The Justifications for Entry & Conduct Regulation, 33 ARIZ. STATE L. J. 429, 429-31 (2001).
²⁰⁶ Id. at 431.

²⁰⁷ Benjamin Barton, *An Institutional Analysis of Lawyer Regulation: Who Should Control Lawyer Regulation – Courts, Legislatures, or the Market,* 37 GA. L. REV. 1167, 1173 (2003).

²⁰⁸ Shearson Lehman Bros. v. Wasatch Bank, 139 F.R.D. 412, 414 (D. Utah 1991) (Utah adopts ABA Model Rules); *see also* GILDA RUSSELL, ETHICAL LAWYERING IN MASSACHUSETTS, (Massachusetts Continuing Legal Education 2021) (Massachusetts adopts "rules that govern attorneys in the commonwealth"); *see also* Frye v. Tenderloin Hous. Clinic, Inc., 129 P.3d 408, 426n.12 (2006) ("California has not adopted the ABA Model Rules, they may be 'helpful and persuasive.").

²⁰⁹ John Villa, *Ethical Responsibility for the Actions of Other Lawyers & Non-Lawyers in Corporate Counsel's Office*, 1 CORP. COUNS. GUIDELINES § 3.30 (2020).

²¹⁰ Anthony Davis, *The Future of Law Firms (& Lawyers) in the Age of Artificial Intelligence*, 27 THE PRO. LAW. 1, 8-10 (2020).

²¹¹ MODEL RULES OF PRO. CONDUCT r. 1.1 (Am. BAR ASS'N 2020).

²¹² MODEL RULES OF PRO. CONDUCT r. 1.1 cmt. 8 (Am. BAR ASS'N 2020).

²¹³ MODEL RULES OF PRO. CONDUCT r. 1.1 cmt. 1 (Am. BAR ASS'N 2020).

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repeatedly fail to perform legal services with competence."²¹⁴ As this Note previously pointed out, AIs do not have the humanlike intelligence like intention.²¹⁵ The question follows: does the language "intentionally, recklessly, with gross negligence" exempt AI programs unless the repetitive failures exist? Also, must an AI program know every case law and statute to be competent? Or will an AI program which knows enough case law and statutes be competent? Perhaps the standard of competency for lawyers will be instructive in determining competency for AIs.

One way to consider the standards of competency is through the remedies of incompetence. When competency issues exist for a legal representation, a criminal defendant claims ineffective assistance of counsel by the lawyer. The state of Florida provides a test for ineffective assistance of counsel:

First, the claimant must identify particular acts or omissions of the lawyer that are shown to be outside the broad range of reasonably competent performance under prevailing professional standards. Second, the clear, substantial deficiency shown must further be demonstrated to have so affected the fairness and reliability of the proceeding that confidence in the outcome is undermined.²¹⁷

Firstly, to highlight the relevant parts that may apply to AI programs, the case law requires the claimant to specifically identify the incompetent act, either erroneous actions or omission of action. Secondly, the inquiry of whether the action is incompetent is under a reasonable standard of being a lawyer. Not every action or omission will be ineffective assistance of counsel. When the lawsuit is based on an action or omission of an action that is a legal tactic, the claimant fails to prove the ineffective assistance of counsel claim. Recall that the AI program often uses deep learning to make decisions, which is a black box. While the lawyer and the court cannot audit the decision, requirement an audit of the decision-making process is likely irrelevant. The decision is under review within the profession's scope of reasonableness.

Although competency requirements are not exactly the same as legal malpractice, the legal malpractice lawsuit commonly arises from a lawyer's incompetency in civil lawsuits. ²²⁵ A

 $^{^{214}}$ Cal. Rules of Pro. Conduct r. 3-110(A) (State Bar of Cal. 2021).

²¹⁵ MUELLER & MASSARON, *supra* note 201.

²¹⁶ Jeffrey Jackson et al., 6 MS. PRAC. ENCYC. MS. L. § 59:48 (2d ed.) (Oct. 2021).

²¹⁷ Elledge v. State, 911 So. 2d 57, 67 (Fla. 2005) *citing* Maxwell v. Wainwright, 490 So.2d 927, 932 (Fla.1986).

²¹⁸ *Id*.

²¹⁹ *Id*.

²²⁰ Adams v. State, 81 P.3d 394, 407 (2003) citing Briones v. State, 848 P.2d 966, 976–77 (1993).

²²¹ *Id*.

²²² Rogers, *supra* note 18; Menick, *supra* note 19.

²²³ Rogers, *supra* note 18; Menick, *supra* note 19; *see also* Davis, *supra* note 213 ("Also problematic is the fact that there is no independent analysis of the efficacy of any given AI solution, so that neither lawyers nor clients can easily determine which of several products or services actually achieve either the results they promise, nor which is preferable for a given set of problems.")

²²⁴ Adams v. State, 81 P.3d 394, 407 (2003) citing Briones v. State, 848 P.2d 966, 976–77 (1993).

²²⁵ Dian Cox & Neal Bowling, *Malpractice v. Misconduct*, LEWIS WAGNER, at 1-2 (May 2021), https://www.lewiswagner.com/9C8985/assets/files/News/malpractice%20article%20-%20national%20-%20marketing%20-%205162012%20_2_.pdf.

lawyer is subject to legal malpractice if the plaintiff can prove: "(1) that an attorney-client relationship existed, which placed a duty upon the attorney to exercise reasonable professional care, skill and knowledge in providing legal services to that client; (2) a breach of that duty; and (3) resultant harm legally caused by that breach."²²⁶ Similar to the claim of ineffective assistance of counsel, the legal malpractice claim requires a reasonableness inquiry on that breach of the attorney's duty.²²⁷ However, unlike the claimants raising ineffective assistance of counsel who can easily identify an omission of action, e.g., waiving closing argument, ²²⁸ claimants of an AI program's breach may be hard to identify in a civil lawsuit. Let's suppose the AI program is being used for translation purposes during a video deposition, ²²⁹ and the attorney is deposing a foreign witness under Rule 28(b) of Federal Rules of Civil Procedure. ²³⁰ The AI program makes a crucial mistake hearing the spoken natural language and translates incorrectly. The claimant may never discover that a crucial piece of information is missing because all the claimant sees is the English version of the foreign language. In this case, the difficulties for a claimant to raise a legal malpractice claim is significantly increased.

Lastly, when lawyers use any AI program, they implicate the technology component of Model Rules 1.1.²³¹ Training for lawyers needs to include curricula for using AI programs, either in law schools or in law firms.²³² Additionally, lawyers should be aware of the limitations of using AIs, like biases, because these limitations can affect the program's accuracy.²³³

ii. ABA Model Rules Regarding Communication

The Communication Rule requires the attorney to keep the client informed about any material issue. ²³⁴ Specifically, the lawyer must explain why certain decisions are being made. ²³⁵ After being trained in basic AI knowledge, lawyers will not have problems explaining how they have used the AI and how AI works. ²³⁶ However, lawyers are not typically educated enough to explain material matters to the client on some occasions. For example, during the decision of whether to settle, the lawyer might use an AI program to predict the outcome of a trial. ²³⁷ The lawyer cannot explain why the AI program predicts that the optimal choice is to settle because the AI operation is a black box. ²³⁸ Lawyers can always resort to explaining how accurate the result is when that AI is used. It is unclear if a lawyer fulfills professional responsibilities by giving a ramification that the lawyer uses an AI with certain accuracy. This also requires the legal community to set a requirement for how accurate an AI must be before a lawyer uses it. This will ultimately be a specific percentage. The downfall is that leaving a client's success to an

²²⁸ Mansfield v. State, 911 So. 2d 1160, 1174 (Fla. 2005).

²³⁴ MODEL RULES OF PRO. CONDUCT r. 1.4 (Am. BAR ASS'N 2020).

²³⁷ Sokowicz, *supra* note 75.

²²⁶ Yager v. Clauson, 166 N.H. 570, 572-73, 101 A.3d 6 (2014).

²²⁷ Id.

²²⁹ How AI is changing legal due diligence, supra note 69.

²³⁰ "A deposition may be taken in a foreign country . . ." Fed. R. Civ. P. 28(b).

²³¹ MODEL RULES OF PRO. CONDUCT r. 1.1 cmt. 8 (Am. BAR ASS'N 2020).

²³² Davis, *supra* note 211, at 6.

²³³ Hao, *supra* note 161.

²³⁵ J. Nick Badgerow, Can We Talk?: The Lawyer's Ethical, Professional & Proper Duty to Communicate with Clients, 7 KAN. J. OF L. & PUB. POL'Y 105, 111 (1998).

²³⁶ Hao, *supra* note 161.

²³⁸ Rogers, *supra* note 18; Menick, *supra* note 19.

AI's percentage accuracy could be inhumane. For example, if an AI only has certain accuracy, this AI is bound to fail at some point. The unlucky client will suffer injustice from that failure.

iii.ABA Model Rules Regarding Confidentiality

Model Rule 1.6 prohibits lawyers from revealing confidential information regarding the representation of the client.²³⁹ By using AI in legal research or other fact-pattern related legal work, the lawyer risks violating the client's confidentiality through data sharing.²⁴⁰ Data sharing happens when user information is shared with developers to improve the AI algorithm.²⁴¹ The client may complain to the bar regarding confidentiality issues when the lawyer shares the client's information.²⁴² But what about when AI companies share the data? The Federal Trade Commission (FTC) has the standing to sue a company when the company unfairly or deceptively uses the user's data.²⁴³ The FTC has sued data brokers for selling data and others for misusing a user's data.²⁴⁴ While users in the United States must wait for FTC to take action, the European Union allows individuals to seek remedies against data privacy violations.²⁴⁵ The EU's General Data Protection Regulation (GDPR) prohibits data processing that is unfair and that violates data security, which is more convenient for consumers to seek remedies.²⁴⁶

b. Laws for Self-Driving Cars May be Instructive

Existing laws relevant to using AI programs to provide legal services are limited to the ABA Model Rules and the legal liability under malpractice.²⁴⁷ Although no direct law governs the use of AI programs to provide legal services, laws governing the use of AI in self-driving cars do exist.²⁴⁸ In 2015, Arizona initiated the program to test and develop self-driving cars on certain designated roads.²⁴⁹ Gradually, Arizona started allowing wider applications of self-driving cars, including deliveries by self-driving cars.²⁵⁰ Effective September 2021, Arizona's statute for self-driving cars allows state-wide applications for self-driving cars, with a few restraints for operating without a human.²⁵¹ On the other hand, having enacted its self-driving law earlier than Arizona, Florida allows self-driving cars to operate without a human driver.²⁵²

²³⁹ MODEL RULES OF PRO. CONDUCT r. 1.6 (AM. BAR ASS'N 2020).

²⁴⁰ Kameli, *supra* note 190, at 8.

²⁴¹ Id.

²⁴² What to Do When You're Mad at Your Lawyer, NoLo, https://www.nolo.com/legal-encyclopedia/problems-with-lawyer-tips-strategies-29925.html (last visited Jan. 24, 2022).

²⁴³ 15 U.S.C. § 45(a).

²⁴⁴ Alexander Reicher & Yan Fang, FTC Privacy & Data Security Enforcement & Guidance Under Section 5, 25 Competition 89, 110-114 (2016).

²⁴⁵ Council Regulation 2016/679, art. 78, 2016 O.J. (L 119) 1, 80.

²⁴⁶ *Id.*, art. 5, at 35-36.

²⁴⁷ Davis, *supra* note 211, at 8.

²⁴⁸ ARIZ. REV. STAT. § 28-9702 (2021); also see FLA. STAT. § 316.85.

²⁴⁹ Ariz. Exec. Order No. 2015-09.

²⁵⁰ Autonomous Vehicles Testing & Operating in the State of Arizona, ARIZ. DEP'T OF TRANSP., https://azdot.gov/motor-vehicles/professional-services/autonomous-vehicles-testing-and-operating-state-arizona (last visited Jan. 24, 2022).

²⁵¹ ARIZ. REV. STAT. § 28-9702.

²⁵² FLA. STAT. § 316.85.

On the federal level, the American Vision for Safter Transportation through Advancement of Revolutionary Technologies (AV START Act) was introduced in 2017 but stalled in Congress. Instead, the Department of Transportation issued multiple guidelines on autonomous vehicles. The guidelines included information on different topics, including safety, research, and integration. With proper research, which will likely happen with legal AI program developers like Thomson Reuters and Wolters Kluwer, AI tools may be sufficient to perform like a lawyer or judge. Although currently AI programs are used in conjunction with human lawyers, supreme courts should supply guidelines and promulgate rules to regulate AI uses. In the next Part, this note explores the possible regulatory efforts and other sources available to support the development and use of AI in the field of law.

Part VI. What Happens When Things Go Wrong: Possible Legal Propositions of Regulating and Allocating Liabilities Arising From Using AI Tools in the Field of Law

One essential purpose of law generally is to determine liabilities between parties to put an end to a dispute.²⁵⁹ The allocation of liabilities has been a question for AI use.²⁶⁰ Since the AI program itself cannot bear liabilities,²⁶¹ courts must find other sources of liabilities for remedies, such as legal malpractice lawsuits against the lawyer. The following are a few ways courts can allocate liabilities and how government can regulate disputes arising from legal AI misuse.

a. Ways the Lawyer Can Limit Liabilities and Feel Safe to Use AI Programs in Lawsuits

The first method may be a liability waiver which an individual would sign before participating in virtually any activities. ²⁶² Liability waivers are agreements to release a party from negligence claims. ²⁶³ In the case of using AI tools in lawsuits, a potential consideration is to require one party contract away another party's liabilities in a lawsuit, e.g., liability of legal malpractice. ²⁶⁴ One proposition is to limit liabilities for the lawyer if the lawyer's malpractice arises from using

²⁵⁶ Davis, *supra* note 211, at 10.

²⁶⁴ Cox & Bowling, *supra* note 226.

²⁵³ Senate Committee Leaves AV Bill Out of Transportation Package, AASHTO J. (June 18, 2021), https://aashtojournal.org/2021/06/18/senate-committee-leaves-av-framework-out-of-transportation-bill (last visited Jan. 24, 2022).

²⁵⁴ USDOT Automated Vehicles Activities, U.S. DEP'T OF TRANSP., https://www.transportation.gov/AV (Mar. 28, 2022).

²⁵⁵ Id

²⁵⁷ Evstratov & Guchenkov, *supra* note 198, at 14.

²⁵⁸ Faggella, *supra* note 66.

²⁵⁹ Cronusprod, *The Purpose of Law & Its Functions in Society*, CRONUS L. (Sep. 2, 2019), https://cronuslaw.com/the-purpose-of-law-and-its-functions-in-society.

²⁶⁰ Legal Bots Raise Liability and Ethics Concerns, EPIQ, https://www.epiqglobal.com/en-us/resource-center/articles/legal-bots-raise-liability-and-ethics-concerns (last visited Jan. 24, 2022).
²⁶¹ Id.

²⁶² Deedee Gasch, *Liability Waivers: Can You Contract Away Negligence?*, WILMINGTONBIZ (Mar. 11, 2019), http://www.wilmingtonbiz.com/insights/deedee_gasch/liability_waivers_can_you_contract_away_negligence%C2% A0/2353.

²⁶³ *Id*.

AI tools. Between a lawyer and a client, the ABA Model Rules prohibits a lawyer from contracting away the lawyer's malpractice liability. However, the lawyer can limit any potential liability if the client is "independently represented in making the agreement." For the lawyer who represents a client in an agreement limiting malpractice liabilities, the lawyer commonly meets difficulties to "evaluate the desirability of making such an agreement before a dispute has arisen." This evaluation is significantly more difficult with deep learning's black box operation. Furthermore, signing a liability agreement results in more complications. The liability agreement limits the lawyer representing the client in a legal dispute, but the agreement does not limit liabilities for the lawyer representing the client in making this agreement. When malpractice in the original legal dispute happens, the client may still sue the latter lawyer for malpractice for advising on the agreement. Essentially, this agreement does not effectively limit malpractice liabilities. Instead, this agreement merely transfers the malpractice liability downstream.

Although the lawyer cannot effectively waive their malpractice, the ABA Model Rules are silent on any agreements between the lawyer and the AI program provider. ²⁶⁹ Between the lawyer and the AI program provider, the lawyer can mitigate liabilities by an indemnification clause in a contract. An indemnification clause requires a party to protect the other from liability or litigating liability arising out of harms to a third party. ²⁷⁰ The lawyer can choose to only use AI programs if the AI program provider indemnifies the lawyer when a malpractice claim arises. Even though the AI program provider can indemnify the lawyer in malpractice litigation, the indemnification clause becomes rather null in bar complaints. Indeed, sometimes additional counsel is necessary for the lawyer and the indemnification clause mitigates the cost.²⁷¹ What the indemnification clause cannot mitigate is the harm to a lawyer's practice. As a result of a bar complaint, the lawyer can be suspended, reprimanded publicly, and even disbarred.²⁷² When misconduct is rather new—like misusing AI tools—the Board on Professional Responsibility (the Board) reviews the conduct extensively.²⁷³ The Board considers the lawyer's moral character before issuing severe penalties like disbarment.²⁷⁴ The question then becomes whether using AI tools to achieve a sub-optimal results warrants disapprobation of a lawyer's moral character. In immigration law, the concept of "moral turpitude" is not viewed as a legal standard. 275 "[T]he term [is] not clearly defined or definable" in law. 276 One way to consider moral character is the action leading other people to "[discern] morally trustworthy and

²⁶⁵ MODEL RULES OF PRO. CONDUCT r. 1.8(h) (AM. BAR ASS'N 2020).

²⁶⁶ MODEL RULES OF PRO. CONDUCT r. 1.8 cmt. 17 (Am. BAR ASS'N 2020).

²⁶⁷ *Id*.

²⁶⁸ Rogers, *supra* note 18.

²⁶⁹ MODEL RULES OF PRO. CONDUCT (AM. BAR ASS'N 2020).

²⁷⁰ Walsh v. Morse Diesel, Inc., 533 N.Y.S.2d 80, 82 (1988).

²⁷¹ Dolores Dorsainvil, *Tips on How to Deal with a Bar Counsel Complaint*, THE GAVEL (Oct. 17, 2012), https://ylsgavel.wordpress.com/2012/10/17/tips-on-how-to-deal-with-a-bar-counsel-complaint. ²⁷² S.J.C. R. 4:01.

²⁷³ *In re Howes*, 52 A.3d 1, 13 (D.C. 2012).

²⁷⁴ In re Allen, 509 N.E.2d 1158, 1159 (1987).

 $^{^{275}}$ 23 A.L.R. Fed. 480 \S 3 (Originally published in 1975). 276 Id.

untrustworthy people."²⁷⁷ Bad morality tends "to bring harm to others in the future."²⁷⁸ Furthermore, to assess someone's moral character the actor's "vantage point" is relevant.²⁷⁹ A technical tool's failure is not sufficient to call into question the user's trustworthiness, nor to confirm that the user has a tendency to harm others. If the lawyer does not know that the AI tool is deficient, with a "vantage point" of ignorance the lawyer then does not demonstrate bad morality. However, this may raise questions about the lawyer's competency under ABA Model Rules.²⁸⁰ If the lawyer does not know that the AI tool is deficient, then lawyer then is free of competency issues because a reasonably competent lawyer would also have difficulties identifying any deficiencies.²⁸¹

The EU Commission's expert group proposed a strict liability requirement (liability without finding faults) for the AI program providers. Similar to indemnification clause discussed above, the Report on Liability for AI and other Emerging Technologies suggests the indemnification be imposed on AI program providers. When the program is being updated by the provider, the strict liability exists. State supreme courts or legislatures can impose strict product liability on AI program providers to increase regulation.

b. How Can the Client Be Protected?

As discussed above, the client can certainly sue the lawyer for legal malpractice and file a bar complaint. However, the client may not want to sue the lawyer for legal malpractice and incur the burden of litigation and its costs.²⁸⁵ One way to solve this problem is to have insurance against sub-optimal performance by AI programs. The United Kingdom takes an approach freeing AI manufacturers from liability, assigning liabilities of insured self-driving vehicles to insurers and liabilities of uninsured vehicles to the vehicle owner.²⁸⁶ Although the UK government does not mandate insurance for self-driving vehicles, the owner may still have their best interests served by being insured. This is analogous to legal malpractice insurance.²⁸⁷ One way for the lawyer to mitigate liability will be having insurance against potential AI-related malpractice lawsuits. Similarly, the state supreme courts or legislatures may also mandate insurance for clients involved in cases where lawyers use AI programs. In that case, the insurer will be liable for the client's claim of the lawyer's malpractice.

²⁷⁹ *Id.* at 101.

²⁸⁵ What Does the Public Really Think about Lawsuits?, JDSUPRA (July 15, 2020), https://www.jdsupra.com/legalnews/what-does-the-public-really-think-of-19779/ (over half of people surveyed would not sue someone unless absolutely necessary).

²⁷⁷ Eric Helzer & Clayton Critcher, *What Do We Evaluate when We Evaluate Moral Character?*, in ATLAS OF MORAL PSYCH. 99, 103 (Gray & Graham ed., 2018).

²⁷⁸ *Id*.

²⁸⁰ See Model Rules of Pro. Conduct r. 1.1 (Am. Bar Ass'n 2020).

²⁸¹ Yager, 166 N.H. at 572-73, 101 A.3d at 9.

²⁸² Eur. Comm'n, Liability for Artificial Intelligence & Other Emerging Digital Technologies 39 (2019).

²⁸³ *Id.* at 42.

²⁸⁴ *Id*.

²⁸⁶ Automated & Electric Vehicles Act 2018, c. 18, § 2 (UK).

²⁸⁷ FAQs on Malpractice Insurance for the New or Suddenly Solo Attorney, AM. BAR ASS'N, https://www.americanbar.org/groups/lawyers_professional_liability/resources/faqs_on_malpractice_insurance_for_t he_new_or_suddenly_solo_attorney (last visited Jan. 24, 2022).

c. Steps to Further Innovation: What Can Courts and Legislatures Do to Decrease the Cost of Justice

Like the ABA Model Rules²⁸⁸ and federal guidelines for autonomous vehicles²⁸⁹, the federal government is likely to issue guidelines specifically about AI use in the field of law. As the Arizona Supreme Court has an interest in decreasing barriers to legal services by promulgating rules on services by nonlawyers,²⁹⁰ the rules can also include services by AI programs. To research and establish precedence, for example, the Arizona Supreme Court may limit the services to certain district courts or certain claims with smaller stakes.²⁹¹ Although many states like Arizona adopted the ABA Model Rules for communications in their state rules,²⁹² the implications of communications lack precedent in courts. The state supreme courts may introduce rules explicitly requiring lawyers to explain the details of risks associated with using AI tools.

Furthermore, states have an interest in protecting its citizens' privacy. ²⁹³ Although the FTC has standing to sue entities who misrepresent their data privacy policies, consumers must wait for the FTC to sue when there is a misrepresentation. ²⁹⁴ For instance, Verizon recently changed its data privacy policy. ²⁹⁵ In its revised privacy policy, Verizon will not be misrepresenting its privacy policies when it collects customer browsing history, and the FTC has no claim against Verizon. Among many Verizon policy updates, users are likely to miss the important privacy provision. Even if users read these provisions, most users may not understand the legal significance behind these provisions. Therefore, the state legislatures should enact data privacy protection laws to protect confidential information used by AI programs, allowing individuals to seek remedies for confidentiality breaches. ²⁹⁶

Conclusion

Innovating the way legal services are provided can substantially decrease the cost for clients. Using AI programs can be the next step to further this innovation. However, AI programs inherently contain inaccuracies, such as biases, and can output suboptimal results. When suboptimal results happen, legal issues arise. Liability allocation and mitigating liability become essential to the topic. However, the main legal remedies for a client currently are malpractice lawsuits and bar complaints, which are less of a remedy per se. Issues like complications and ambiguity that are specific to using AI programs under ABA Model Rules exist, causing unknown risks to lawyers and clients. Further, the client and the lawyer also face challenges relating to privacy issues like data sharing and collection.

²⁸⁸ MODEL RULES OF PRO. CONDUCT (AM. BAR ASS'N 2020).

²⁸⁹ USDOT, supra note 255.

²⁹⁰ ACJA § 7-208.

 $^{^{291}}$ Id

²⁹² Ariz. State Sup. Ct. R. 42.

²⁹³ Ariz. Const. art. II, § 8.

²⁹⁴ Reicher & Fang, *supra* note 245.

²⁹⁵ Full Privacy Policy, VERIZON WIRELESS, https://www.verizon.com/about/privacy/full-privacy-policy (last visited Jan. 24, 2022).

²⁹⁶ Council Regulation 2016/679, art. 78, 2016 O.J. (L 119) 1, 80.

Facing these challenges, lawyers can mitigate or limit their liability by having an indemnification clause with the AI program providers. Courts may recognize that a deficiency in AI tools does not warrant a severe bar penalty. On the side of clients, clients can seek remedies under legal malpractice or simply obtain insurance against unknown AI deficiencies. Furthermore, courts and legislatures may recognize strict liability when AI program providers are unsuccessful in mitigating AI errors.

To protect its citizens, states should actively take steps to gradually allow AI programs to be used under regulation. Like nonlawyer legal service providers, the state supreme courts may promulgate rules to allow certain uses of AI programs for certain small claims or low stake legal services. The courts can also require the client's written consent to explain the risks and benefits when any AI program is involved. Lastly, state legislatures have an interest in protecting their citizens' privacy by passing laws limiting data collection and sharing.