

Expert Q&A on Artificial Intelligence (AI) Licensing

PRACTICAL LAW INTELLECTUAL PROPERTY & TECHNOLOGY

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An expert Q&A with Rebecca Eisner of Mayer Brown LLP on artificial intelligence (AI) licensing. The Q&A addresses AI in general and key issues that arise in AI license agreements for providers and users, including intellectual property (IP) ownership and infringement, warranties, and legal compliance.

Use of artificial intelligence (AI) continues to increase in many industries and within various technologies as innovative organizations use AI to realize competitive advantages. However, AI licensing presents unique issues and considerations that organizations should address before implementing an AI solution.

Practical Law asked Rebecca Eisner of Mayer Brown LLP for her insights on AI licensing issues, best practices when entering into AI license agreements, and how to prepare for future developments in this area. Rebecca is a partner in the firm's Technology Transactions practice, focusing on digital transformation, data, software, outsourcing, and data privacy and security. She is a member of the Global Management Committee for the firm and previously served as a member of the Global Partnership Board and as Partner-in-Charge of the Chicago office. Rebecca has also been named as among the World's Leading Lawyers (information technology), as among the Best Lawyers in America (technology law and information technology), one of the top women attorneys in Illinois (Leading Lawyers Network 2006, 2007, and 2009), on the list of Illinois Super Lawyers, and to National Law Journal's Technology Law Trailblazer list. Rebecca frequently speaks at events and webinars on technology transactions topics and has been quoted in numerous blogs and publications on a broad range of issues involving information technology, including AI-related technology.

For more information on legal issues raised by AI, see Practice Note, Artificial Intelligence Key Legal Issues: Overview ([W-018-1743](#)) and Artificial Intelligence Toolkit ([W-019-1426](#)).

WHAT ARE SOME OF THE KEY CHALLENGES REGARDING THE USE OF AI?

AI has been called the electricity of the 21st century. While the uses and benefits of AI are exponentially increasing, there are challenges for businesses looking to harness this new technological advancement. Chief among the challenges are:

- The ethical use of AI.
- Legal compliance regarding AI and the data that fuels AI.
- Protection of IP rights and the appropriate allocation of ownership and use rights in the components of AI.

Businesses also need to determine whether to build AI themselves or license it from others.

WHAT IS AI AND HOW DOES IT WORK?

AI generally refers to computer software or algorithms that can perform tasks normally performed by humans. AI also includes:

- **Machine learning.** See Machine Learning.
- **Deep learning.** This is a subset of machine learning that involves more complex neural networks.
- **Robotics process automation (RPA).** This is also known as the use of bots. Bots complete routine and repetitive tasks through automation and do not typically include machine learning.

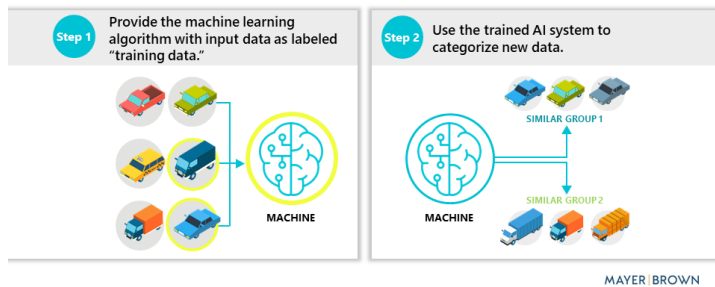
MACHINE LEARNING

Machine learning starts with an algorithm or computer code (the AI solution). The user provides data to the AI solution to produce an outcome. The data can be:

- Labeled training data with instructions to train the AI solution to produce a certain outcome. This is referred to as **supervised learning**.
- Unlabeled training data without any instructions. This allows the AI solution to determine patterns and correlations that, when applied to data, produce an outcome. This is referred to as **unsupervised learning**.

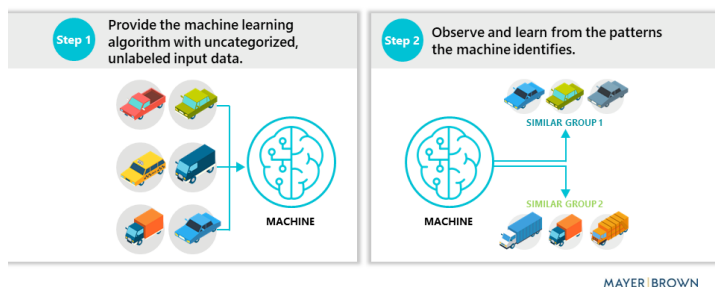
For example, if a user wants an AI solution to recognize and distinguish cars from trucks using supervised learning, the user would pre-label the training data and allow the AI solution to process and sort the data into categories. The output hopefully produces the desired outcome, which is the ability to distinguish between cars and trucks.

How Supervised Machine Learning Works



With unsupervised machine learning, the user would simply enter training data containing images of vehicles into the AI solution and the algorithm would determine patterns and correlations that may or may not produce results that distinguish between cars and trucks.

How Unsupervised Machine Learning Works



HOW IS AI LICENSING DIFFERENT FROM TRADITIONAL SOFTWARE OR TECHNOLOGY LICENSING?

Many of the terms and conditions in AI licensing are the same as in any traditional software or technology license agreement. However, AI licensing presents several unique issues requiring counsel to pay attention to the key components of AI. These components include:

- **The AI solution.** This is the tool used to produce the desired outcome, whether a machine learning algorithm or a deeper neural network.
- **Training data.** This is the data set used to train the AI along with the instructions.
- **Production data.** This is the data set entered in the AI solution to produce the AI output.
- **The AI output.** This is the outcome after the production data is entered into the AI solution.
- **AI evolutions.** These are iterations of the AI solution that evolve during training and subsequent uses.

AI licensing requires counsel to identify and address the different AI components, an exercise that is not needed in traditional software or technology licensing. For each AI component, it is important to answer the following “essential questions”:

- Who is providing the component.
- Who will use the component.
- How will the component be used.
- Who owns the component.

The answers to each of these questions will drive the terms and conditions in the AI license agreement.

For purposes of this discussion, the term “provider” refers to the AI licensor and the term “user” refers to the business that is the AI licensee. Depending on the AI arrangement, the provider may provide a license to software or grant access to cloud services containing the AI. References to AI licensing, therefore, typically include:

- On-premises licenses of AI, where the user installs, trains, and operates the AI solution.
- Subscription to software as a service (SaaS) or other cloud services the provider offers where the user accesses the AI solution in the cloud via the internet, and the provider often trains the AI solution.

For more on software licensing, SaaS, and other cloud services, see Practice Notes:

- Software License Agreements ([W-015-8354](#)).
- Software as a Service (SaaS) Agreements ([6-548-7267](#)).
- Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) Agreements ([W-014-0120](#)).

WHAT ARE THE KEY ISSUES IMPACTING PROVIDERS AND USERS ENTERING INTO AI LICENSE AGREEMENTS?

Several unique issues impact AI license agreements. In particular, it is important to address the following key issues:

- IP ownership and use rights.
- IP infringement.
- Warranties, specifically performance promises.
- Legal compliance.

HOW DOES THE AI MODEL IMPACT IP OWNERSHIP AND USE RIGHTS?

US IP laws simply have not caught up to AI yet. While aspects of AI components may be protectable under patents, copyrights, and trade secrets, US IP laws primarily protect human creativity. Because of the focus on human creation, issues may arise under US IP laws if the AI output is created by the AI solution instead of a human creator.

Since US IP laws do not squarely cover AI, as between an AI provider and user, contractual terms are the best way to attempt to gain the benefits of IP protections in AI license agreements. For instance, the parties could:

- Designate certain AI components as trade secrets.
- Protect AI components by:
 - limiting use rights;
 - designating AI components as confidential information in the terms and conditions; and
 - restricting use of confidential information.

- Include assignment rights in AI evolutions from one party or the other.
- Determine the license and use rights the parties want to establish between the provider and the user for each AI component.
- Clearly articulate the rights in the terms and conditions.

OWNERSHIP AND USE OF THE AI SOLUTION

The provider typically is the owner of the AI solution and provides a license to the AI solution to the user. The license may include restrictions on use, such as a field of use restriction, territorial limitations, or uses prohibited for risk, legal, or ethical reasons. For example, voice recognition technology may be appropriate for helping customers to navigate a voice response unit but may not be appropriate for analysis to impute IQ scores to prescreen for employment or confer other benefits.

OWNERSHIP AND USE OF TRAINING DATA

The AI agreement must cover which party will:

- Provide and own the training data.
- Prepare and own the training instructions.
- Conduct the training.
- Revise the algorithms during the training process and own the resulting AI evolutions.

As for data ownership, the parties should identify the source of the data and ensure that data use complies with applicable laws and any third-party data provider requirements.

OWNERSHIP AND USE OF PRODUCTION DATA

Once the AI solution has been trained and is ready for production, production data will fuel the AI solution to produce AI output. It is important to set out in the terms and conditions which party provides and which party owns the production data that will be used.

If the AI solution is licensed to the user on-premises (the user is running the AI solution in the user's systems and environment), it is likely that the user will supply and own the production data. However, if the AI solution is cloud-based, the production data may include the data of other users. In a cloud situation, the user should specify whether the provider may use the user's data for the benefit of the entire AI user group or solely for the user's particular purposes.

It is important to note that limiting the use of production data to one user with an AI solution may have unintended results. In some AI applications, the use of a broader set of data from multiple users may increase the AI solution's accuracy and proficiency. However, counsel must weigh the benefits of permitting a broader use of data against the legal, compliance, and business considerations a user may have for limiting use of its production data.

OWNERSHIP AND USE OF AI OUTPUT

Most users expect to own their AI output. If the AI solution is cloud-based, there often is a term in cloud agreements (particularly public cloud agreements) called customer content. Customer content is typically any information, data, or other content that is submitted to the cloud, and this term may be expanded to cover any of the AI components, including the AI output the user provided or generated.

However, the parties should carefully consider whether labeling AI output as customer content will produce any unintended results under the contract structure. For example, cloud agreements often require the user to agree that it has all rights to provide the customer content, but this statement may not be an appropriate undertaking by a user where, for example, the provider has trained the AI.

With AI output, as with production data and training data, users need to be careful if they are considering a grant of use rights to the provider. Users should be aware of privacy, data protection, and third-party restrictions that may exist in other agreements the user has with other parties that could limit the use of the production data, training data, or AI output.

OWNERSHIP AND USE OF AI EVOLUTIONS

If the AI solution is static (not constantly changing and iterating), providers typically own any changes to the AI solution. A static AI solution is more similar to software because the solution does not change and users use the solution as developed and presented by the provider. However, many AI solutions are not static and continue to change through the use process.

When two or more parties are each contributing to the AI evolutions, the license agreement should appoint a contractual owner. The parties must then determine who will own AI evolutions or whether AI evolutions will be jointly owned, which presents additional practical challenges. For more information on IP joint ownership, see Practice Note, Intellectual Property: Joint Ownership ([9-583-4685](#)).

If the cloud user will not own the AI evolutions, then the user should include in the AI license agreement the right to use the most recently trained version of the tool.

HOW DOES THE AI MODEL IMPACT THE IP INFRINGEMENT PROVISIONS?

Typical exceptions to the IP infringement indemnity in traditional software or technology licensing agreements include that the provider will not indemnify for:

- Modifications to the software or technology.
- Combination of the software or technology with other software or technology the provider did not authorize.
- Use of the software or technology beyond the scope authorized in the agreement.

For AI licensing, these traditional exceptions will not work well because modifications and combinations will occur with AI, and a user that blindly agrees to these typical exceptions may find itself without any IP infringement protection. For example, the AI solution:

- Must be trained, which means modifications to the AI solution.
- Must be combined with training data and production data.
- May evolve and exceed a pre-determined authorized scope over time.

There is no one-size-fits-all license solution to this challenging complication. Allocation of the risks around IP infringement must be informed by answers to the essential questions listed above.

For instance, if an AI solution will be trained by the user who enters its own training and production data in the AI solution to produce

an outcome, the provider likely will not provide an infringement indemnity that covers all of the AI solution components. The provider may be willing to provide an infringement indemnity for the initial AI solution because that is the only component controlled by the provider in this example.

HOW DOES THE AI MODEL IMPACT A PERFORMANCE WARRANTY?

One of the most common warranties in traditional software and technology licensing agreements is a performance warranty that the software or the technology will perform in accordance with the documentation or the specifications. With AI, it is problematic to tie a performance warranty to the documentation or specifications because AI is constantly evolving. The AI solution may drift from the initial documentation or specifications such that the traditional performance warranty loses its value over time.

Instead of tying the performance warranty to the documentation or specifications, AI providers and users may consider tying warranties to desired outcomes the parties intend to achieve through use of the AI.

However, not all outcomes are easily definable, and they may not be fit for the desired purpose at all if improperly defined. Consider the story from China in which a prominent executive was issued a traffic violation from a traffic monitoring system that used facial recognition technology to identify violators. The prominent executive was not present at the given location when the system registered a violation. Instead, a bus bearing an ad with the executive's likeness was present, and that caused the system to register a violation and ascribe it to the executive. In this example, if the user of the AI system had merely defined the outcome as a "facial recognition system that accurately correlates images to the most likely actual human," then the AI system would satisfy that stated outcome but utterly fail in the real-world practical desired outcome of the traffic monitoring system.

HOW DOES THE AI MODEL IMPACT LEGAL COMPLIANCE?

The use of AI presents ethical issues. Organizations must:

- Consider how they will use AI.
- Define principles and implement policies regarding the ethical use of AI.

One portion of the AI ethical use consideration is legal compliance, which is another issue that is more challenging for AI than for traditional software or technology licensing. AI-based decisions must satisfy the same laws and regulations that apply to human decisions. AI is different from many other technologies because AI can produce legal harms against people and some of that legal harm might not only violate ethical norms, but may also be actionable under law. It is important to address legal compliance concerns with the provider before entering into an AI license agreement to determine which party is responsible for compliance.

Some best practices to address legal compliance issues in AI licensing are to:

- Conduct diligence on the AI solution to determine if there are any legal or regulatory risk areas that merit further inquiry.

- Allocate responsibility for legal and regulatory compliance according to the AI components and informed by the answers to the essential questions listed above.
- Develop policies around AI and involve the various stakeholders in the policy-making process to ensure that thoughtful consideration is given about when it is appropriate to use AI and in what contexts.
- Implement a risk management framework that includes a system of ongoing monitoring and controls around the use of AI.
- Consider which party should obtain third-party consents for data use due to potential privacy and data security issues.

WHAT DO YOU SEE AS HORIZON ISSUES FOR AI LICENSING?

AI is transforming our world rapidly and without much oversight. Developers are free to innovate, as well as to create tremendous risk. The horizon line for AI is much closer than many think. Very soon leading nations will need to establish treaties and global standards around the use of AI, not unlike current discussions about climate change.

Governments will need to both:

- Establish laws and regulations that protect ethical and productive uses of AI.
- Prohibit unethical, immoral, harmful, and unacceptable uses.

These laws and regulations will need to address some of the IP ownership, use rights, and protection issues discussed in this article. However, these commercial considerations are secondary to the overarching issues concerning the ethical and moral use of AI. In line with the increased attention on corporate responsibility and issues like diversity, sustainability, and responsibility to more than just investors, businesses that develop and use AI will need policies and guidance against which the use of AI should be assessed and utilized. These policies and guidance are worthy of board-level attention. Technology lawyers who in these early days assist clients with AI issues must monitor developments in these areas and, wherever possible, act as facilitators and leaders of thoughtful discussions regarding AI.

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