

# THE LEGAL AND ETHICAL IMPLICATIONS OF AI IN CRIMINAL JUSTICE

#### Dr. Reshma

Assistant professor SDM Law college, centre for PG studies and research in Law, Mangaluru

#### Introduction

In recent years, artificial intelligence (AI) has become an increasingly integral part of the criminal justice system, revolutionizing various facets of law enforcement, courtroom procedures, and correctional practices. AI systems are now utilized for predictive policing, risk assessments in sentencing, surveillance, facial recognition, and even parole decisions. While these technologies promise enhanced efficiency, accuracy, and objectivity, their use raises significant legal and ethical concerns that warrant closer scrutiny. This paper aims to explore the legal and ethical implications of AI in criminal justice, shedding light on the potential risks and challenges associated with its adoption and implementation. The use of AI in criminal justice is not merely a technological advancement but a complex intersection of law, rights, and moral considerations, each carrying profound consequences for fairness, due process, and civil liberties.<sup>1</sup>

The primary purpose of this paper is to examine the legal and ethical concerns related to AI's involvement in criminal justice processes. These concerns are deeply rooted in constitutional and human rights protections, particularly those afforded by the U.S. Constitution and international human rights law. AI's role in decision-making processes, such as predicting criminal behavior or determining a person's risk of reoffending, challenges traditional notions of fairness and justice. For example, in the context of predictive policing, AI systems may inadvertently target marginalized communities, thereby perpetuating racial and socioeconomic disparities that violate the Equal Protection Clause of the Fourteenth Amendment. Furthermore, the application of AI in legal proceedings may lead to questions about due process and the right to a fair trial guaranteed by the Sixth Amendment.<sup>2</sup>

AI's influence on decision-making processes in the justice system must also be examined through the lens of accountability and transparency. Since many AI algorithms operate as "black boxes," their decision-making processes are not always transparent, making it difficult for individuals to understand or challenge decisions made about them. This raises serious ethical and legal issues regarding the presumption of innocence, right to appeal, and access to justice, all fundamental pillars of a fair legal system.

By exploring these various facets, this paper will provide a comprehensive analysis of how AI is reshaping criminal justice and the legal frameworks required to govern its use effectively.<sup>3</sup>

#### Historical Context and Use of AI in Criminal Justice

The integration of artificial intelligence (AI) in criminal justice is a relatively recent development, with its origins tracing back to the mid-20th century when AI was first conceived as a tool for automating decision-making and pattern recognition. Over time, AI technologies have evolved significantly, particularly in the context of criminal justice. From their early uses in research and analysis to more widespread applications in policing, courtrooms, and correctional facilities, AI tools now shape decision-making processes at almost every level of the criminal justice system. The application of AI in criminal justice is fundamentally reshaping how law enforcement agencies operate, how courts process cases, and how individuals are monitored and rehabilitated in the penal system.<sup>4</sup>

AI's role in law enforcement began with relatively simple applications, such as data analysis and crime mapping, which laid the foundation for more complex uses like predictive policing. Predictive policing refers to the use of AI

<sup>&</sup>lt;sup>1</sup> **Anderson, M. & Hargreaves, R.**, *Artificial Intelligence and the Law: Risks and Benefits*, 38 J. OF LAW & TECH. 445 (2020).

<sup>&</sup>lt;sup>2</sup> Binns, R., Fairness in Algorithmic Decision-Making, 15 INT'L REV. OF LAW 56 (2021).

<sup>&</sup>lt;sup>3</sup> Binns, R., The Ethics of Predictive Policing and its Legal Implications, 12 J. POLICE STUDIES 33 (2019).

<sup>&</sup>lt;sup>4</sup> Cave, S., Dignum, V. & Hovden, J., Regulation of Artificial Intelligence in Criminal Justice: Legal and Ethical Challenges, 13 AI & SOCIETY 123 (2020).



and machine learning algorithms to analyze historical crime data, identify patterns, and predict where future crimes are likely to occur. One of the earliest and most well-known examples of predictive policing is the PredPol system, which uses machine learning to analyze past criminal activity and predict where crimes are likely to happen. This system has been adopted by police departments in cities like Los Angeles and Chicago. However, the use of predictive policing has raised concerns about reinforcing existing biases, particularly racial bias. The Equal Protection Clause of the Fourteenth Amendment mandates that no individual or group shall be denied the equal protection of the laws, which becomes a critical legal issue if AI systems disproportionately target certain communities, particularly minorities.

AI has also been increasingly employed for surveillance purposes, particularly through facial recognition technologies. Law enforcement agencies use facial recognition to identify suspects by comparing facial features captured in public spaces with those in databases of known individuals. One of the earliest large-scale uses of this technology was seen in the 2001 London riots, where facial recognition was used to identify and arrest individuals involved in the disturbances. However, concerns about privacy and the potential for abuse have arisen, particularly with the expansion of surveillance capabilities in public spaces. The Fourth Amendment of the U.S. Constitution protects individuals from unreasonable searches and seizures, raising legal questions about whether the widespread use of facial recognition systems infringes on this right.<sup>5</sup>

Early cases of AI in criminal justice have highlighted the tension between innovation and civil rights. One notable instance is the case of State v. Loomis (2016)<sup>6</sup>, where the Wisconsin Supreme Court upheld the use of COMPAS in sentencing. The defendant argued that the use of COMPAS violated his due process rights, as the system's algorithm was proprietary and not fully transparent. The court ruled in favor of using COMPAS, but the case sparked national debates over the ethics and fairness of AI in legal decision-making. The Sixth Amendment guarantees the right to confront witnesses and evidence, yet many AI tools operate in a manner that makes it difficult for defendants to challenge the evidence used in their cases.

These early applications illustrate both the potential benefits and challenges of AI in criminal justice. While AI can streamline processes and improve efficiency, it also raises significant concerns about fairness, accountability, and transparency—issues that must be addressed through careful legal and ethical oversight.<sup>7</sup> As AI continues to be adopted, its development and deployment in criminal justice must be scrutinized to ensure that its use does not violate fundamental legal principles, including due process, equal protection, and privacy rights under the U.S. Constitution.

#### Legal Implications of AI in Criminal Justice

The use of artificial intelligence (AI) in criminal justice raises significant legal concerns that directly impact constitutional rights and human liberties. AI systems are increasingly employed in various stages of the criminal justice process, from predictive policing to sentencing and parole decisions. However, these systems pose substantial challenges to established legal protections such as the Sixth Amendment right to a fair trial, the Fourth Amendment protection against unreasonable searches and seizures, and the presumption of innocence. This section explores these concerns, as well as the broader legal implications surrounding the use of AI in criminal justice, including issues of bias, accountability, and international human rights.<sup>8</sup>

# **Constitutional and Human Rights Concerns**

One of the most profound legal concerns surrounding AI in criminal justice is its potential impact on fundamental constitutional rights. Key constitutional protections such as the right to a fair trial, the right against unreasonable searches and seizures, and the presumption of innocence are critical to ensuring justice and fairness in the criminal justice system. As AI technologies increasingly influence decision-making in criminal cases, they present significant challenges to these legal protections.

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<sup>&</sup>lt;sup>5</sup> Chauhan, K., Ethical Challenges in AI-Based Risk Assessment for Sentencing in Indian Criminal Justice, 28 INDIA L. REV. 77 (2020).

<sup>&</sup>lt;sup>6</sup> 2015AP157-CR

<sup>&</sup>lt;sup>7</sup> Cohen, J.E., The Regulatory Power of Algorithms: Law's Role in Artificial Intelligence Governance, 54 HARV. J. ON LEGIS. 1 (2020).

<sup>&</sup>lt;sup>8</sup> European Commission, Proposal for a Regulation on Artificial Intelligence, COM(2021) 206 final (Apr. 21, 2021).

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The Sixth Amendment, which guarantees the right to a fair trial, poses a specific challenge in the context of AI in criminal justice. Al systems, such as those used in risk assessments or predictive policing, may significantly impact a defendant's right to confront and challenge evidence against them. For instance, when AI tools such as COMPAS (Correctional Offender Management Profiling for Alternative Sanctions) are used in sentencing or parole hearings. the algorithm's decision-making process is often opaque. Defendants may not have access to the underlying data or the ability to cross-examine the algorithmic reasoning behind a prediction of recidivism or risk of reoffending. 9 In the landmark case State v. Loomis (2016)<sup>10</sup>, the Wisconsin Supreme Court upheld the use of COMPAS in sentencing despite the defendant's argument that the proprietary nature of the algorithm violated his Sixth Amendment rights to confront the evidence against him. While the court ruled that COMPAS could be used, it acknowledged the potential risks posed by the lack of transparency and the ability to challenge such tools in court.

The Fourth Amendment protection against unreasonable searches and seizures also intersects with AI in criminal justice, particularly with the increasing use of facial recognition and predictive policing technologies. Facial recognition systems, for example, raise questions about the legality of surveillance in public spaces without probable cause or a warrant. The U.S. Supreme Court's decision in Carpenter v. United States (2018)<sup>11</sup> clarified that the Fourth Amendment protects individuals from warrantless searches of cell phone location data, emphasizing the need for privacy protections in the digital age. However, the use of AI in surveillance, such as real-time facial recognition in public spaces or predictive policing that relies on historical crime data, may violate these privacy protections by conducting broad, suspicionless surveillance on individuals without their knowledge or consent. The challenge lies in balancing the law enforcement objectives of preventing crime with the constitutional right to be free from unreasonable searches.<sup>12</sup>

Finally, the presumption of innocence, a cornerstone of criminal justice, could be undermined by AI systems that predict a defendant's likelihood of committing a crime or reoffending. The **due process** implications are significant: if an AI system inaccurately classifies someone as a high risk for reoffending, it may unfairly influence judges' decisions on bail, sentencing, or parole, leading to biased outcomes. 13

#### AI in Sentencing and Parole Decisions

AI-driven risk assessment tools like COMPAS are increasingly used to assist judges and parole boards in making decisions about sentencing and parole. These tools analyze factors such as an individual's criminal history, age, gender, and family background to predict the likelihood of recidivism. While these tools are designed to provide objective insights and improve consistency in sentencing, their legal implications are complex.

The use of AI in sentencing and parole decisions raises significant due process concerns. Due process requires that all individuals be treated fairly and with transparency in legal proceedings. When an AI tool like COMPAS is used to predict recidivism, the defendant has little to no opportunity to challenge the underlying data or the algorithm used to generate the risk score. In State v. Loomis, the Wisconsin Supreme Court ruled that the use of COMPAS was permissible, but emphasized that its use should not override judicial discretion or be the sole factor in sentencing. However, the court also recognized that the proprietary nature of the COMPAS algorithm limited the defendant's ability to fully challenge the evidence used against him. This raises important questions about transparency, accountability, and fairness—all of which are critical under the Sixth Amendment.<sup>14</sup>

Furthermore, there is concern that these AI tools could exacerbate discrimination and bias in sentencing and parole decisions. Research has shown that tools like COMPAS may be racially biased, disproportionately labeling Black defendants as high risk while underestimating the risk posed by white defendants.

<sup>11</sup> 585 U.S. (2018)

<sup>&</sup>lt;sup>9</sup> Fitzgerald, R., Data Privacy and Artificial Intelligence in Criminal Justice: A Comparative Perspective, 25 U. DUBLIN L. J. 101 (2019).

<sup>&</sup>lt;sup>10</sup> 2015AP157-CR

<sup>&</sup>lt;sup>12</sup> Frankenfield, J., AI in Policing and Sentencing: Ethical and Legal Concerns, 6 J. LEGAL & ETHICAL ISSUES 302

<sup>&</sup>lt;sup>13</sup> Gonzalez, A., Algorithmic Discrimination and Fairness in Criminal Justice Systems, 14 J. OF ETHICS & POL'Y 59

<sup>&</sup>lt;sup>14</sup> Government of India, Personal Data Protection Bill, 2019, available at https://www.indiacode.nic.in.



### Bias and Discrimination in AI Algorithms

One of the most significant legal challenges associated with AI in criminal justice is the potential for algorithms to reinforce existing biases. AI systems are trained on historical data, and if that data reflects biased decision-making (e.g., racial profiling or disparities in arrest rates), the AI will perpetuate and potentially amplify those biases. This can lead to discriminatory outcomes in predictive policing, sentencing, and parole decisions.<sup>15</sup>

The Equal Protection Clause of the Fourteenth Amendment guarantees that no individual shall be denied the equal protection of the laws. Discriminatory practices, whether intentional or systemic, violate this constitutional right. AI systems in criminal justice, if left unchecked, may exacerbate racial, gender, and socioeconomic inequalities, leading to legal challenges and potential violations of individuals' civil rights.

### **Accountability and Liability**

A significant legal issue with the increasing use of AI in criminal justice is determining accountability and liability when AI systems make erroneous or harmful decisions. In cases where an AI system's decision leads to an unjust outcome—such as an inaccurate risk assessment or wrongful arrest—it is crucial to determine who is responsible for the harm caused.

The responsibility may lie with multiple parties, including the developers of the AI system, law enforcement agencies that deploy the system, and other stakeholders in the criminal justice system. However, the lack of transparency in many AI tools complicates the identification of fault. Under current legal frameworks, liability for AI-related harms is unclear, and victims of AI-induced injustices may have difficulty holding responsible parties accountable. This highlights the need for clear legal standards and mechanisms for redress when AI systems result in violations of individuals' rights. <sup>16</sup>

# **International Human Rights Law**

On a global scale, the increasing use of AI in criminal justice also raises important questions about the compatibility of AI-driven justice systems with international human rights standards. The Universal Declaration of Human Rights (UDHR), adopted by the United Nations, guarantees fundamental rights such as the right to a fair trial, the right to privacy, and the right to be free from discrimination. AI systems used in criminal justice must be scrutinized to ensure that they align with these international principles.<sup>17</sup>

# **Ethical Implications of AI in Criminal Justice**

As artificial intelligence (AI) continues to shape criminal justice systems, it raises profound ethical questions that challenge core values such as fairness, transparency, accountability, autonomy, and respect for human rights. The use of AI in criminal justice has been increasingly pervasive in areas such as predictive policing, risk assessment for parole, sentencing, and surveillance.

# **Fairness and Transparency**

One of the primary ethical concerns surrounding AI in criminal justice is the issue of fairness and the transparency of decision-making processes. AI systems, including those used in predictive policing and risk assessments, rely on algorithms that process vast amounts of data to identify patterns and predict future behavior. For example, predictive policing tools analyze historical crime data to forecast where future crimes are likely to occur, while risk assessment tools, such as COMPAS (Correctional Offender Management Profiling for Alternative Sanctions), assess the likelihood of an individual reoffending based on their criminal history, demographic information, and other variables. 18

<sup>&</sup>lt;sup>15</sup> **Greer, M.A. & Nelson, J.M.**, *Artificial Intelligence and the Fair Trial: Legal Implications in Criminal Justice*, 47 LAW & PHIL. 9 (2021).

<sup>&</sup>lt;sup>16</sup> **Hartzog, W. & Purtova, N.**, *Privacy and AI in Law Enforcement: Challenges and Opportunities*, 18 ETHICS & INFORMATION TECH. 35 (2021).

<sup>&</sup>lt;sup>17</sup> Indian Ministry of Home Affairs, National Policy on AI: AI for All, available at https://www.mha.gov.in.

<sup>&</sup>lt;sup>18</sup> **Kamat, A.**, Regulating AI in India: Legal and Ethical Concerns in the Criminal Justice System, 23 J. IND. L. REV. 112 (2020).

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From a fairness perspective, the use of AI in criminal justice may inadvertently reinforce existing biases present in historical data. Predictive policing tools, for instance, often rely on past arrest records and crime reports, which may be inherently biased due to systemic inequalities in law enforcement practices.

Furthermore, when AI systems are used to make decisions about parole, sentencing, or pretrial release, the ethical principle of fairness requires that the process be open, transparent, and based on reliable evidence. If a defendant's fate is determined by an opaque algorithm that they have no means of challenging or understanding, the fairness of the decision-making process becomes highly questionable. The use of such algorithms may violate the Sixth Amendment, which guarantees the right to a fair trial and the ability to confront the evidence against oneself. Ethically, AI systems must not only be transparent but also be designed in a way that allows individuals to contest and challenge the decisions made about them.<sup>19</sup>

### **Informed Consent and Autonomy**

Another critical ethical consideration in the use of AI in criminal justice is the concept of informed consent and the preservation of individual autonomy. In traditional legal proceedings, individuals are entitled to make informed decisions about their legal rights and the processes affecting their lives.

The ethical requirement for informed consent stipulates that individuals should have clear knowledge of and the ability to agree to any processes that affect their legal rights or personal freedom. If AI tools are used without proper consent or notification, the autonomy of individuals is compromised, and their ability to make informed decisions about their legal circumstances is undermined.

Additionally, AI tools in criminal justice can erode personal autonomy by shifting significant decision-making responsibilities from human beings to machines. The right to autonomy is protected under various human rights frameworks, including the Universal Declaration of Human Rights (UDHR), which emphasizes the dignity and rights of individuals. Ethical considerations must ensure that AI systems do not violate this fundamental principle by automating decisions in a way that removes human judgment and personal agency.<sup>20</sup>

#### Accountability and Autonomy in Decision-Making

The delegation of decision-making authority to AI systems raises serious ethical concerns about accountability. In criminal justice, decisions such as sentencing, parole, and even police interventions are being increasingly influenced by AI algorithms. However, when AI systems make erroneous or harmful decisions, it can be difficult to pinpoint who is responsible for the consequences. The developers of AI systems, law enforcement agencies, and other stakeholders may each try to deflect responsibility, leaving affected individuals with little recourse for redress.

Ethically, there must be mechanisms in place to ensure that AI decision-making is accountable and that those who create, implement, and use these systems can be held responsible for their outcomes. This could involve legal frameworks that hold both developers and users of AI systems accountable for any harm caused by their deployment. Additionally, ethical considerations must include ensuring that AI systems are used as tools to assist human decision-makers, rather than replace human judgment entirely.<sup>21</sup> Human oversight is essential to prevent decisions that may be ethically questionable or unjust. While AI can provide valuable insights, it should not be used to completely remove human judgment from decisions that affect individuals' rights and freedoms.

# Impact on Communities and Society

The ethical implications of AI in criminal justice are particularly pronounced for marginalized communities, including people of color, low-income individuals, and those from historically oppressed groups. AI systems, such as predictive policing tools and risk assessment algorithms, are often trained on historical data, which may reflect

<sup>&</sup>lt;sup>19</sup> **Kothari, A. & Verma, V.**, *Artificial Intelligence in Indian Policing: A Critical Legal Perspective*, 31 INDIAN J. CRIM. LAW 81 (2020).

<sup>&</sup>lt;sup>20</sup> Krishnan, J., The Ethics of AI in Law Enforcement and Justice in India, 16 INDIAN L. R. 64 (2021).

<sup>&</sup>lt;sup>21</sup> **Levin, S.**, AI, Algorithms, and Accountability in Criminal Justice Systems: A Global Overview, 50 UCLA L. REV. 1784 (2021).



existing biases in law enforcement practices. As a result, these algorithms risk perpetuating systemic inequalities in the criminal justice system.<sup>22</sup>

The Equal Protection Clause of the Fourteenth Amendment of the U.S. Constitution mandates that no person shall be denied equal protection under the law. This includes protection from discriminatory practices in the criminal justice system, whether perpetrated by human decision-makers or AI algorithms. If AI tools are used in ways that disproportionately harm marginalized communities, they may violate the constitutional rights of those individuals. Ethically, it is imperative to ensure that AI systems in criminal justice are designed to mitigate bias and that their deployment does not contribute to the historical patterns of inequality in law enforcement and sentencing.<sup>23</sup>

Moreover, the societal impact of AI in criminal justice raises ethical concerns about the long-term effects on public trust in the system. If communities perceive AI tools as tools of discrimination, surveillance, and control, they may lose confidence in the legitimacy and fairness of the criminal justice system. Public trust is essential for maintaining the social contract that binds society, and ethical considerations must prioritize transparency, fairness, and accountability in the design and use of AI technologies to ensure that they contribute positively to the justice system and society at large.

# Regulation and Governance of AI in Criminal Justice

As the use of artificial intelligence (AI) in criminal justice expands, there is increasing recognition of the need for robust regulation and governance to address both the legal and ethical challenges it presents.

# **Current Legal Frameworks and Regulatory Measures**

At the national level, existing regulations aim to address some of the challenges posed by AI in criminal justice, though these frameworks are often incomplete or lag behind the pace of technological development. For example, the General Data Protection Regulation (GDPR), adopted by the European Union in 2018, is a comprehensive data protection law that impacts AI applications, including those in criminal justice. The GDPR regulates how personal data is collected, processed, and used, with an emphasis on transparency and accountability. <sup>24</sup>

However, the GDPR does not directly address the specific ethical concerns raised by the use of AI in criminal justice systems. For example, the regulation does not fully address issues related to **bias** in AI algorithms, which could perpetuate systemic inequalities in policing and sentencing. While the GDPR's provisions on transparency and accountability are essential, they need to be complemented by additional measures to regulate the specific impacts of AI in the criminal justice context.

In the U.S., there is currently no comprehensive federal law specifically governing AI in criminal justice. The Federal Trade Commission (FTC) and other regulatory bodies have provided some oversight, but these efforts focus primarily on consumer protection rather than criminal justice applications. <sup>25</sup>

# **Calls for New Laws and Amendments**

Advocacy groups, such as the AI Now Institute and the Electronic Frontier Foundation (EFF), have been at the forefront of pushing for stronger regulations and reforms related to AI in criminal justice. These organizations advocate for laws that require AI transparency, algorithmic accountability, and **anti-discrimination safeguards** to ensure that AI tools do not disproportionately harm marginalized communities. <sup>26</sup>

<sup>&</sup>lt;sup>22</sup> **Lichtblau, E.,** *Automated Justice: The Legal and Ethical Implications of AI in Sentencing and Parole Decisions*, 44 POL'Y & LAW 101 (2019).

<sup>&</sup>lt;sup>23</sup> **Miyake, M.**, *The Intersection of Artificial Intelligence and Human Rights in Criminal Justice*, 29 J. OF GLOBAL JUSTICE 145 (2020).

<sup>&</sup>lt;sup>24</sup> **Pati, S.**, Ethical Dilemmas in AI-Driven Risk Assessment Tools for Indian Criminal Justice, 22 AI & ETHICS 211 (2020).

<sup>&</sup>lt;sup>25</sup> **Raji, I.D., & Buolamwini, J.**, Actionable Auditing: Investigating the Impact of Public Policy on Algorithmic Fairness, 30 COMM. ACM 28 (2019).

<sup>&</sup>lt;sup>26</sup> Sampath, S., Artificial Intelligence and Criminal Justice in India: Exploring Regulatory Approaches, 32 J. CRIM. JUST. 104 (2020).



# **International Perspectives on AI Regulation**

Internationally, countries are taking different approaches to regulating AI, reflecting varying cultural values, legal traditions, and priorities in criminal justice. The European Union (EU) has been a global leader in AI regulation, particularly with the introduction of the Artificial Intelligence Act (AI Act) in 2021. <sup>27</sup>

In contrast, the United States has taken a more piecemeal approach to AI regulation, with limited federal oversight and varying state-level initiatives. While there have been some federal efforts, such as the National AI Initiative Act (2020), which focuses on advancing AI research and development, there is no comprehensive law governing the use of AI in criminal justice.<sup>28</sup>

China, on the other hand, has embraced AI as a central component of its criminal justice and surveillance systems, with limited emphasis on regulation or ethical considerations. China's approach to AI governance focuses on maximizing technological advancement and state control, including extensive use of AI-driven surveillance, facial recognition, and behavior prediction systems. <sup>29</sup>

#### Conclusion

The regulation and governance of AI in criminal justice is an evolving area that requires careful balancing of technological innovation, ethical principles, and legal protections. Current regulatory frameworks, such as the GDPR in Europe, provide important safeguards for data privacy and transparency, but there is a pressing need for more comprehensive and tailored regulations to address the unique challenges posed by AI in criminal justice. Advocacy groups like the AI Now Institute and the EFF have highlighted the importance of algorithmic accountability, transparency, and anti-discrimination measures, calling for new laws and reforms to ensure that AI tools used in criminal justice do not perpetuate bias or violate constitutional rights.

<sup>&</sup>lt;sup>27</sup> **Sundararajan, V.**, *Technology and Law Enforcement: Legal and Ethical Perspectives on AI in Policing*, 27 SING. J. OF LEGAL STUD. 157 (2019).

<sup>&</sup>lt;sup>28</sup> **The AI Now Institute**, *Discriminating Systems: A Study of Justice and AI*, available at <a href="https://www.ainowinstitute.org">https://www.ainowinstitute.org</a>. <sup>29</sup> **Fitzgerald, R.**, *Data Privacy and Artificial Intelligence in Criminal Justice: A Comparative Perspective*, 25 U. DUBLIN L. J. 101 (2019).