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Artificial Intelligence: CRS Products

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SUMMARY

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Artificial Intelligence: CRS Products

Advances in artificial intelligence (AI) technologies—including machine learning, generative AI (GenAI), and facial recognition—are demonstrating potential benefits across a variety of sectors of the U.S. economy. At the same time, the rapid innovation in and proliferation of AI tools have generated concern over their potential disruptive effects, such as generation and dissemination of misinformation, potential shifts in jobs and employment opportunities, and social, ethical, and security risks. Over the past few Congresses, Members have considered a variety of policies and legislation associated with AI technologies and their applications. With interest in AI remaining high, Congress may continue to engage in AI policymaking.

To support Congress, CRS has assembled a list of policy experts and legal points of contact who can assist with issues related to AI. The contact list is available in CRS Report R48262, *Artificial Intelligence: CRS Experts and Points of Contact*, coordinated by Laurie Harris. Additional written and audiovisual CRS products on AI-related policy and legal issues, legislation, and executive branch actions are presented here, in the following categories:

- **AI Overview: Technology and Regulation—**products that provide background information on AI in general, including a taxonomy of AI terminology, cross-sector issues, and topics related to AI regulation and governance.
- **Generative AI**—products that focus on the subset of GenAI technologies; GenAI refers to AI models trained on large volumes of data that are able to generate new content, such as text, images, videos, computer code, or music.
- **AI and Biological Sciences—**products that cover the intersection of AI and the biological sciences, including biosecurity, engineering biology and biological design, as well as aspects of laboratory automation and design.
- **AI, Defense, and National Security—**products that cover the intersection of AI and the defense sector or national security issues, including emerging technologies used by the military and national security risks.
- **AI, Economics, and Labor—**products that cover AI's effect on the economy and labor.
- **AI and Elections—**products that cover the intersection of AI and campaign finance policies and laws, including AI use in election campaign advertising.
- **Facial Recognition and Biometric Technologies—**products that cover facial recognition and biometric technologies, including applications for their use and examples of use by federal agencies.
- **AI and Finance—**products that cover the use of algorithms and AI technologies to provide financial services.
- **AI and Health Care—**products that cover applications of AI use that are relevant to health care and selected U.S. Department of Health and Human Services AI-related activities.
- **AI and Infrastructure**—products that cover AI infrastructure, including data centers, semiconductors, and cloud computing infrastructure for AI development and AI-enabled services.
- **AI, Patents, and Intellectual Property—**products that cover the intersection of AI and patents or intellectual property, including patent-eligible subject matter reform and issues about AI patentability, such as whether inventions made using AI are patentable or inventions *about* AI are patentable.
- **AI and Right of Publicity—**products that cover issues related to AI and the protection of "right of publicity," often defined as a legal right to prevent unauthorized commercial uses of a person's name, image, likeness, or voice.

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Selected Artificial Intelligence (AI)-Focused CRS Products

This report lists a selection of written and audiovisual CRS products that focus primarily on AI-related policy and legal issues, legislation, and executive branch actions. (Additional CRS products that reference or include brief discussions of—but are not focused on—AI are not included but may be found on crs.gov.) The products shown here are grouped by common themes and organized chronologically by date of publication. This list is current as of the date of this report.

AI Overview: Technology and Regulation

CRS Report R49490, *Algorithmic Discrimination: Legal Principles*, by Abigail A. Graber

CRS Legal Sidebar LSB11487, *Artificial Intelligence and Federal Criminal Law: Considerations for Congress*, by Cassandra J. Barnum et al.

CRS Video WVB00929, *Professional Ethics: Recent Developments in Artificial Intelligence*, by April J. Anderson et al.

CRS Legal Sidebar LSB11485, *Artificial Intelligence Safety Collaboration and Antitrust Law*, by Jay B. Sykes

CRS Report R49189, *AI Chatbots as Companions: Overview, Uses, and Considerations for Congress*, by Dominique T. Greene-Sanders

CRS In Focus IF13268, *Controlling Advanced Artificial Intelligence: Executive Order 14409 Explained*, by Chris Jaikaran et al.

CRS Report R48941, *Combating Robocalls and Robotexts: Background, Selected FCC Activity, and Legislative Activity in the 119th Congress*, by Dominique T. Greene-Sanders

CRS Report R48694, *Federal Research and Development (R&D) Funding: FY2026*, coordinated by Emily G. Blevins

CRS Video WVB00841, *Current Issues in Artificial Intelligence, AI Regulation, and Considerations for Congress*, by Laurie Harris et al.

CRS Report R48555, *Regulating Artificial Intelligence: U.S. and International Approaches and Considerations for Congress*, by Laurie Harris

CRS Video WVB00794, *Science and Technology Q&A: Federal AI Legislative and Policy Update*, by Laurie Harris and Katherine Segarra (or, in podcast form, CRS Report WPD00153, *Science and Technology Q&A: Federal AI Legislative and Policy Update*, by Laurie Harris and Katherine Segarra)

CRS Legal Sidebar LSB11314, *The TAKE IT DOWN Act: A Federal Law Prohibiting the Nonconsensual Publication of Intimate Images*, by Victoria L. Killion

CRS Infographic IG10077, *Artificial Intelligence (AI) Taxonomy*, by Laurie Harris et al.

Generative AI

CRS Video WVB00839, *Science & Technology Q&A: Competition and Generative AI*, by Clare Y. Cho and Laurie Harris (or, in podcast form, CRS Report WPD00178, *Science & Technology Q&A: Competition and Generative AI*, by Clare Y. Cho and Laurie Harris)

CRS In Focus IF13051, *DeepSeek and the Race to Develop Artificial Intelligence*, by Laurie Harris

CRS In Focus IF12968, *Competition and Antitrust Concerns Related to Generative AI*, by Clare Y. Cho, Laurie Harris, and Ling Zhu

CRS In Focus IF12426, *Generative Artificial Intelligence: Overview, Issues, and Considerations for Congress*, by Laurie Harris

CRS Legal Sidebar LSB10922, *Generative Artificial Intelligence and Copyright Law*, by Christopher T. Zirpoli

CRS Legal Sidebar LSB11097, *Section 230 Immunity and Generative Artificial Intelligence*, by Peter J. Benson and Valerie C. Brannon

CRS Report R47569, *Generative Artificial Intelligence and Data Privacy: A Primer*, by Ling Zhu and Laurie Harris

AI and Biological Sciences

CRS In Focus IF13269, *Artificial Intelligence and Biosecurity Issues*, by Todd Kuiken

CRS Video WVB00907, *Disruptive Technology Seminar Series: Perspectives on Innovation and Discovery in Biomedical Research*, by Kavya Sekar

CRS Insight IN12546, *National Security Commission on Emerging Biotechnology: Final Report and Options for Congress*, by Todd Kuiken

CRS Video WVB00642, *Science and Technology Q&A: Artificial Intelligence in the Biological Sciences*, by Todd Kuiken and Jason A. Gallo (or, in podcast form, CRS Report WPD00077, *Science and Technology Podcast: Artificial Intelligence in the Biological Sciences*, by Todd Kuiken and Jason A. Gallo)

CRS Report R47849, *Artificial Intelligence in the Biological Sciences: Uses, Safety, Security, and Oversight*, by Todd Kuiken

AI, Defense, and National Security

CRS In Focus IF11105, *Defense Primer: Emerging Technologies*, by Kelley M. Sayler

CRS In Focus IF13336, *Removing PRC Artificial Intelligence Models from Federal Agencies*, by Chris Jaikaran

CRS In Focus IF13217, *Federal Government and Anthropic: Considerations for AI Innovation and Competition*, by Laurie Harris et al.

CRS Insight IN12669, *Pentagon-Anthropic Dispute over Autonomous Weapon Systems: Potential Issues for Congress*, by Kelley M. Sayler

CRS Video WVB00911, *Science and Technology Q&A: Agentic AI and Cyberattacks*, by Catherine A. Theohary et al. (or, in podcast form, CRS Report WPD00202, *Science and Technology Q&A: Agentic AI and Cyberattacks*, by Catherine A. Theohary et al.)

CRS In Focus IF13241, *Artificial Intelligence (AI): Implications for Size and Composition of the U.S. Armed Forces*, by Kristy N. Kamarck et al.

CRS In Focus IF11150, *Defense Primer: U.S. Policy on Lethal Autonomous Weapon Systems*, by Kelley M. Sayler

CRS In Focus IF13151, *Agentic Artificial Intelligence and Cyberattacks*, by Catherine A. Theohary and Kelley M. Sayler

CRS In Focus IF13197, *Cyber and Artificial Intelligence Provisions in the FY2026 National Defense Authorization Act (NDAA)*, by Catherine A. Theohary et al.

CRS Insight IN12615, *Realignment of DOD's Chief Digital and AI Officer (CDAO)*, by Kelley M. Sayler

CRS In Focus IF11294, *International Discussions Concerning Lethal Autonomous Weapon Systems*, by Kelley M. Sayler

CRS Report R46458, *Emerging Military Technologies: Background and Issues for Congress*, by Kelley M. Sayler

AI, Economics, and Labor

CRS In Focus IF13346, *AI Investment and the U.S. Economy*, by Lida R. Weinstock et al.

CRS In Focus IF13301, *AI Investments and Potential Government Stakes in Private AI Firms*, by Eva Su

CRS Insight IN12715, *Artificial Intelligence (AI) in Workforce Development Programs at the Department of Labor*, by Benjamin Collins

CRS Insight IN12699, *Artificial Intelligence (AI) Skills Training in EDA Programs*, by Julie M. Lawhorn

CRS In Focus IF13182, *The Impact of Generative AI on Labor Markets: Frameworks*, by Elizabeth Weber Handwerker

CRS Insight IN12537, *Case Studies of How Generative Artificial Intelligence is Changing Work*, by Elizabeth Weber Handwerker

CRS In Focus IF12762, *The Macroeconomic Effects of Artificial Intelligence*, by Lida R. Weinstock and Paul Tierno

AI and Elections

CRS Insight IN12222, *Artificial Intelligence (AI) and Campaign Finance Policy: Recent Developments*, by R. Sam Garrett

CRS In Focus IF12468, *Artificial Intelligence (AI) in Federal Election Campaigns: Legal Background and Constitutional Considerations for Legislation*, by L. Paige Whitaker

Facial Recognition and Biometric Technologies

CRS Report R48935, *Facial Recognition Technology: Definitions, Applications, and Policy Considerations for Congress*, by Dominique T. Greene-Sanders

CRS In Focus IF11783, *Biometric Technologies and Global Security*, by Kelley M. Sayler

CRS Video WVB00328, *Law Enforcement Use of Facial Recognition Technology*, by Kristin Finklea, Laurie Harris, and Kelsey Y. Santamaria

CRS Report R46586, *Federal Law Enforcement Use of Facial Recognition Technology*, coordinated by Kristin Finklea

AI and Finance

CRS In Focus IF13349, *The Role of Circular Finance in Funding AI Investment*, by Paul Tierno

CRS In Focus IF13103, *Artificial Intelligence in Capital Markets: Policy Issues*, by Eva Su and Ling Zhu

CRS In Focus IF13072, *Artificial Intelligence and Derivatives Markets: Policy Issues*, by Rena S. Miller

CRS Video WVB00681, *Artificial Intelligence in Financial Services*, by Paul Tierno

CRS Report R47997, *Artificial Intelligence and Machine Learning in Financial Services*, by Paul Tierno

AI and Health Care

CRS In Focus IF12352, *Office of the National Coordinator for Health Information Technology (ONC)*, by Nora Wells

CRS Legal Sidebar LSB11467, *Artificial Intelligence in Health: Overview of Selected State Liability Frameworks*, by Wen W. Shen et al.

CRS In Focus IF13245, *FDA Regulation of AI-Enabled Devices*, by Amanda K. Sarata

CRS In Focus IF13135, *Artificial Intelligence (AI) in Health Care: Recent Federal Activity*, by Nora Wells

CRS Report R48319, *Artificial Intelligence (AI) in Health Care*, coordinated by Nora Wells

AI Infrastructure

CRS In Focus IF12899, *Data Centers and Cloud Computing: Information Technology Infrastructure for Artificial Intelligence*, by Ling Zhu

CRS Video WVB00920, *Disruptive Technology Seminar Series: AI Infrastructure*, by Ling Zhu

CRS In Focus IF13306, *Congressional Authority to Regulate Data Centers*, by Andrew S. Coghlan

CRS Report R49326, *Data Centers and the Electricity Grid: Frequently Asked Questions*, by Ashley J. Lawson et al.

CRS Report R48920, *Data Centers: CRS Experts*, coordinated by Paul W. Parfomak

CRS Video WVB00896, *Science & Technology Seminar Series: Data Centers & Their Energy Consumption*, by Martin C. Offutt

CRS Report R49057, *Data Centers and Water: Frequently Asked Questions*, coordinated by Peter Folger and Elena H. Humphreys

CRS Report R48646, *Data Centers and Their Energy Consumption: Frequently Asked Questions*, by Martin C. Offutt, Ling Zhu, and Ashley J. Lawson

CRS Report R48902, *Internet Architecture: A Layer-Based Analysis of Selected Internet Policy Issues*, by Ling Zhu

CRS Report R48762, *Data Center Energy Infrastructure: Federal Permit Requirements*, by Paul W. Parfomak et al.

AI, Patents, and Intellectual Property

CRS Video WVB00884, *Artificial Intelligence and Intellectual Property Law*, by Kevin J. Hickey et al.

CRS Legal Sidebar LSB11251, *Artificial Intelligence and Patent Law*, by Kevin J. Hickey and Christopher T. Zirpoli

CRS Report R45918, *Patent-Eligible Subject Matter Reform: Background and Issues for Congress*, by Kevin J. Hickey

AI and Right of Publicity

CRS Video WVB00696, *The Right of Publicity and Artificial Intelligence*, by Victoria L. Killion and Christopher T. Zirpoli

CRS Legal Sidebar LSB11052, *Artificial Intelligence Prompts Renewed Consideration of a Federal Right of Publicity*, by Christopher T. Zirpoli

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