



# Ethical Use of AI in Insurance Modeling and Decision-Making

With increased availability of next-generation technology and data mining tools, insurance company use of external consumer data sets and artificial intelligence (AI) and machine learning (ML)-enabled analytical models is rapidly expanding and accelerating. Insurers have initially targeted key business areas such as underwriting, pricing, fraud detection, marketing distribution and claims management to leverage technical innovations to realize enhanced risk management, revenue growth and improved profitability. At the same time, regulators worldwide are intensifying their focus on the governance and fairness challenges presented by these complex, highly innovative tools – *specifically, the potential for unintended bias against protected classes of people.*

## Regulators Turn Up the Heat

In the United States, the Colorado Division of Insurance recently issued a first-in-the-nation draft regulation to support the implementation of a 2021 law passed by the state’s legislature.<sup>1</sup> This law (SB21-169) prohibits life insurers from using external personal data and information sources (ECDIS), or employing algorithms and models that use ECDIS, where the resulting impact of such use is unfair discrimination against consumers on the basis of race, color, national or ethnic origin, religion, sex, sexual orientation, disability, gender

identity or gender expression.<sup>2</sup> In pre-release public meetings with industry stakeholders, the Colorado Department of Insurance also offered guidance that similar rules should be expected in the not-too-distant future for property & casualty insurers. In the same vein, UK and EU regulators are now penning new policies and legal frameworks to prevent AI model-driven consumer bias, ensure transparency and explainability of model-based decisions for customers and other stakeholders, and impose accountability for insurers who leverage these capabilities.<sup>3</sup>

Clearly, regulators around the globe believe that well-defined guard rails are needed to ensure the ethical use of external data and AI-powered analytics in insurance decision-making. Moreover, in some jurisdictions, public oversight and enablement bodies such as the U.S. Department of Commerce's National Institute of Standards and Technology (NIST) are also actively working to define cross-industry guidelines and rules for the acceptable use of external data to train AI/ML-powered decision support models without resulting in discrimination against protected classes of consumers.<sup>4</sup>

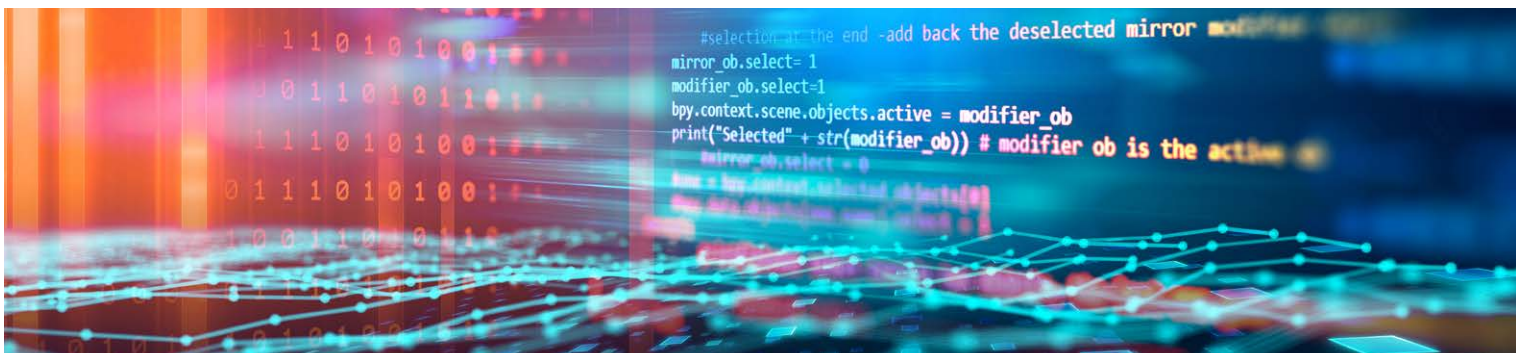
Examples of potentially disfavored data may include:

- Personal credit scores
- Social media habits
- Home ownership
- Education attainment
- Licensures
- Civil judgments
- Court records
- Occupations not having a direct relationship to mortality, morbidity or longevity risk
- Insurance risk scores derived from this and similar information
- Data such as individual consumer purchasing preferences that can serve as proxies for protected information

## New Reporting Rules Will Require More Resources

Based on the Colorado draft regulation that was recently published, the expected breadth of pending new AI and external data set rules could mean potentially onerous execution challenges for insurers, who seek to balance the need for proactive risk management, market penetration and profitability objectives with principles of consumer fairness. For many insurers, internal data science and technology resources that are already swamped with their “day jobs” will be insufficient to meet expected reporting and model testing obligations across the multiple jurisdictions in which their companies do business. In other situations, insurers may lack appropriate test data and skill sets to assess potential model bias. In either instance or both, model testing and disclosure obligations will continue to mount and support will be needed to satisfy regulator demands and avoid the significant business ramifications of non-compliance.

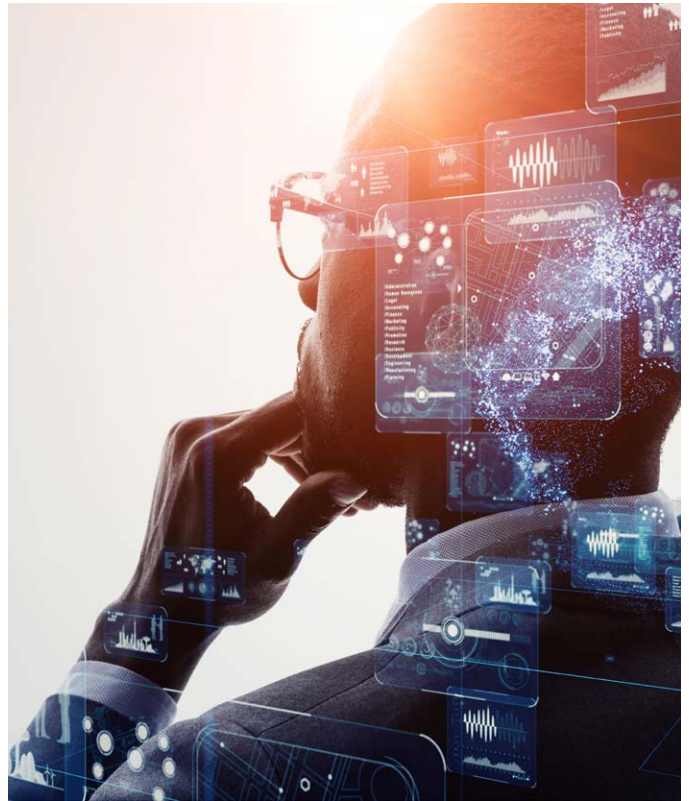
So, how can insurance companies and their data science/technology teams best address the operational challenges that evolving data privacy and model ethics regulations will certainly present? Leading companies that want to get ahead of the curve may opt to partner with skilled experts, who understand the data and processing complexities of non-linear AI/ML-enabled models. The best of these external operators will also bring to the table deep insurance domain knowledge to assure context for testing and offer reliable, independent and market-proven test data and testing methodologies that can be easily demonstrated and explained to insurers and regulators alike.



## Balancing Compliance and Financial Performance

The burden of regulatory compliance in the insurance industry cannot be diminished and can challenge a company’s ability to attain target business benefits if these two seemingly opposing objectives — compliance and profitability — are not managed in a proactively strategic and supportive way. With appropriate guidance and execution, insurers who comply with new and emerging regulations for the use of AI-powered decision-support models and external data sets may actually realize a number of tangible benefits beyond compliance, including more stable analytic insight models, improved new business profitability and operational scalability, and a better customer experience that enhances brand loyalty and drives customer retention and enhanced lifetime value.

*For more information on FTI Consulting’s AI-enabled model testing and external data assessment approach and capabilities, please contact Marc Zimmerman or Jim Wrynn in New York, or Peter Kelly in London.*



- 1 [“SB21-169 - Protecting Consumers from Unfair Discrimination in Insurance Practices,” Colorado Department of Regulatory Agencies Division of Insurance \(last accessed February 22, 2023\).](#)
- 2 [“SB21-169 – Restrict Insurers’ Use Of External Consumer Data,” Colorado General Assembly \(last accessed February 22, 2023\).](#)
- 3 [Claudio Calvino and Meloria Meschi, “AI Bias: The EU’s Artificial Intelligence Act is Coming – You Need to be Ready,” Law.com \(Dec. 13, 2022\).](#)
- 4 [Reva Schwartz et al, “Towards a Standard for Identifying and Managing Bias in Artificial Intelligence,” NIST Special Publication 1270 \(March 2022\).](#)

### MARC ZIMMERMAN

Senior Advisor  
+1 212 499 3601  
marc.zimmerman@fticonsulting.com

### JIM WRYNN

Senior Managing Director  
+1 212 841 9365  
jim.wrynn@fticonsulting.com

### PETER KELLY

Senior Managing Director  
+44 203 727 1672  
peter.kelly@fticonsulting.com

*The views expressed herein are those of the author(s) and not necessarily the views of FTI Consulting, Inc., its management, its subsidiaries, its affiliates, or its other professionals. FTI Consulting, Inc., including its subsidiaries and affiliates, is a consulting firm and is not a certified public accounting firm or a law firm.*

FTI Consulting is an independent global business advisory firm dedicated to helping organizations manage change, mitigate risk and resolve disputes: financial, legal, operational, political & regulatory, reputational and transactional. FTI Consulting professionals, located in all major business centers throughout the world, work closely with clients to anticipate, illuminate and overcome complex business challenges and opportunities. ©2023 FTI Consulting, Inc. All rights reserved. [fticonsulting.com](https://www.fticonsulting.com)

04032023 | VN02676-v05