

Ai For Wealth Management

AI for Wealth Management: A Comprehensive Guide to Best Practices and Pitfalls

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Summary: This guide provides a comprehensive overview of the application of AI in wealth management, exploring its transformative potential while addressing key challenges and best practices. We delve into specific AI techniques used in portfolio management, risk assessment, client servicing, and fraud detection, highlighting both the opportunities and pitfalls of AI adoption. The guide emphasizes the ethical considerations and the importance of human oversight in this rapidly evolving field.

Keywords: AI for wealth management, artificial intelligence in finance, wealth management technology, robo-advisors, AI-powered portfolio management, algorithmic trading, machine learning in finance, fintech, risk management AI, AI and financial regulation.

1. Introduction: The Rise of AI in Wealth Management

The wealth management industry is undergoing a significant transformation driven by advancements in artificial intelligence (AI). AI for wealth management is no longer a futuristic concept; it's rapidly becoming a core component of many firms' strategies. From automating routine tasks to providing personalized investment advice, AI is reshaping the way wealth managers interact with clients and manage portfolios. This guide explores the multifaceted applications of AI within the wealth management landscape, focusing on best practices and potential pitfalls.

2. AI Applications in Wealth Management: A Deep Dive

AI offers a wide range of applications within wealth management, impacting several key areas:

Portfolio Management & Optimization: AI algorithms, particularly machine learning models, can analyze vast datasets of market data, economic indicators, and individual client profiles to create optimized portfolios tailored to specific risk tolerances and return objectives. This goes beyond traditional Modern Portfolio Theory (MPT) by incorporating non-linear relationships and

incorporating alternative data sources.

Risk Management: AI can enhance risk management capabilities by identifying and assessing potential risks more effectively than traditional methods. Machine learning models can detect anomalies, predict market downturns, and assess credit risks with greater accuracy.

Client Onboarding & Servicing: AI-powered chatbots and virtual assistants can streamline client onboarding processes, answer frequently asked questions, and provide personalized support, freeing up human advisors to focus on higher-value activities.

Fraud Detection & Prevention: AI algorithms can analyze transaction data to identify suspicious patterns and prevent fraudulent activities, protecting both clients and the firm's assets.

Regulatory Compliance: AI can assist in meeting regulatory requirements by automating compliance checks and reporting processes, ensuring adherence to industry standards.

3. Best Practices for Implementing AI in Wealth Management

Successful implementation of AI in wealth management requires careful planning and execution. Key best practices include:

Data Quality & Management: AI models are only as good as the data they are trained on. High-quality, clean, and comprehensive data is crucial for accurate and reliable results.

Model Selection & Validation: Choosing the appropriate AI model for a specific application is critical. Rigorous testing and validation are necessary to ensure model accuracy and robustness.

Human Oversight & Explainability: While AI can automate many tasks, human oversight remains essential. Explainable AI (XAI) techniques are crucial to understanding the reasoning behind AI-driven decisions.

Security & Privacy: Protecting client data is paramount. Robust security measures are needed to prevent data breaches and ensure compliance with privacy regulations.

Ethical Considerations: AI systems should be designed and used ethically, avoiding bias and ensuring fairness in decision-making.

4. Common Pitfalls to Avoid

Despite its potential benefits, AI adoption in wealth management presents several challenges:

Data Bias & Fairness: AI models can inherit biases present in the training data, leading to unfair or discriminatory outcomes.

Lack of Transparency & Explainability: Complex AI models can be difficult to understand, making it challenging to debug errors or identify biases.

Regulatory Uncertainty: The regulatory landscape surrounding AI in finance is still evolving,

creating uncertainty for firms.

Integration Challenges: Integrating AI systems into existing infrastructure can be complex and costly.

Talent Acquisition & Retention: Finding and retaining skilled AI professionals is a significant challenge for many firms.

5. The Future of AI in Wealth Management

The future of AI in wealth management is bright. We can expect to see continued advancements in AI capabilities, leading to even more sophisticated and personalized services. AI will likely play an increasingly important role in all aspects of wealth management, from portfolio optimization to client servicing and risk management. However, the successful integration of AI will depend on addressing the ethical, regulatory, and technological challenges outlined above.

Conclusion

AI for wealth management offers immense potential to improve efficiency, enhance client service, and drive better investment outcomes. By carefully considering the best practices and avoiding common pitfalls, wealth management firms can harness the power of AI to achieve a competitive advantage and deliver superior value to their clients. The future of wealth management is intertwined with the intelligent application of AI, and those who embrace this technology responsibly will be best positioned for success.

FAQs

What are the main benefits of using AI in wealth management? AI offers enhanced portfolio optimization, improved risk management, personalized client service, streamlined operations, and advanced fraud detection.

What are the biggest risks associated with AI in wealth management? Key risks include data bias, lack of transparency, regulatory uncertainty, integration challenges, and the need for specialized talent.

How can wealth management firms ensure the ethical use of AI? Ethical AI requires careful data selection, model validation, human oversight, and adherence to fairness principles.

What are some examples of AI-powered tools used in wealth management today? Examples include robo-advisors, AI-driven portfolio optimizers, chatbots, and fraud detection systems.

How is AI changing the role of human wealth advisors? AI automates routine tasks, allowing advisors to focus on higher-value activities such as client relationship management and complex financial planning.

What are the regulatory implications of using AI in wealth management? Regulations concerning data privacy, algorithmic transparency, and model validation are constantly evolving and need careful

consideration.

How can wealth management firms overcome the challenge of data scarcity? Firms can leverage alternative data sources, explore data augmentation techniques, and collaborate with data providers.

What is the role of explainable AI (XAI) in wealth management? XAI is crucial for understanding the decision-making process of AI models, building trust, and ensuring compliance.

What are the future trends in AI for wealth management? Future trends include the increased use of machine learning, natural language processing, and the integration of AI with other technologies such as blockchain.

Related Articles:

"AI-Driven Portfolio Optimization: Strategies and Best Practices": This article explores advanced techniques for optimizing investment portfolios using AI, including reinforcement learning and deep learning.

"The Impact of AI on Financial Advisor-Client Relationships": This article examines how AI is transforming the interaction between wealth advisors and their clients, focusing on personalized service and enhanced communication.

"Mitigating Risk with AI in Wealth Management": This article focuses on the application of AI in identifying and managing various financial risks, including market risk, credit risk, and operational risk.

"Regulatory Compliance and AI in the Wealth Management Industry": This article discusses the evolving regulatory landscape surrounding AI in finance and the challenges firms face in complying with relevant regulations.

"Ethical Considerations in the Deployment of AI for Wealth Management": This article explores ethical dilemmas, such as bias in algorithms and the potential for unfair outcomes.

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"Building a Successful AI Strategy for Wealth Management Firms": This article provides a step-by-step guide for wealth management firms looking to implement AI successfully.

"Case Studies: Successful Implementations of AI in Wealth Management": This article presents real-world examples of how wealth management firms have successfully integrated AI into their operations.

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considerations of deploying AI solutions and why explainable AI is so important

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â€¢ai for wealth management: Artificial Intelligence in Asset Management S hnke M. Bartram, J rgen Branke, Mehrshad Motahari, 2020-08-28 Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity.

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also demonstrates that the lynchpin for retirement security globally is an innovative new retirement bond (called SELFIES) he has jointly developed with Robert C. Merton that governments could easily issue to achieve multiple goals.

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Get a handle on disruption, innovation and opportunity in investment technology The digital evolution is enabling the creation of sophisticated software solutions that make money management more accessible, affordable and eponymous. Full automation is attractive to investors at an early stage of wealth accumulation, but hybrid models are of interest to investors who control larger amounts of wealth, particularly those who have enough wealth to be able to efficiently diversify their holdings. Investors can now outperform their benchmarks more easily using the latest tech tools. The WEALTHTECH Book is the only comprehensive guide of its kind to the disruption, innovation and opportunity in technology in the investment management sector. It is an invaluable source of information for entrepreneurs, innovators, investors, insurers, analysts and consultants working in or interested in investing in this space. â€¢ Explains how the wealth management sector is being affected by competition from low-cost robo-advisors â€¢ Explores technology and start-up company disruption and how to delight customers while managing their assets â€¢ Explains how to achieve better returns using the latest fintech innovation â€¢ Includes inspirational success stories and new business models â€¢ Details overall market dynamics The WealthTech Book is essential reading for investment and fund managers, asset allocators, family offices, hedge, venture capital and private equity funds and entrepreneurs and start-ups.

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constitutes revised and selected papers from the First International Conference on Society 5.0, Society 5.0 2021, held virtually in June 2021. The 12 full papers and 3 short papers presented in this volume were thoroughly reviewed and selected from the 54 qualified submissions. The papers discuss topics on application of the fourth industrial revolution innovations (e.g. Internet of Things, Big Data, Artificial intelligence, and the sharing economy) in healthcare, mobility, infrastructure, politics, government, economy and industry.

â€¢ai for wealth management: Powering the Digital Economy: Opportunities and Risks of Artificial

Intelligence in Finance El Bachir Boukherouaa, Mr. Ghiath Shabsigh, Khaled AlAjmi, Jose Deodoro, Aquiles Farias, Ebru S Iskender, Mr. Alin T Mirestean, Rangachary Ravikumar, 2021-10-22 This paper discusses the impact of the rapid adoption of artificial intelligence (AI) and machine learning (ML) in the financial sector. It highlights the benefits these technologies bring in terms of financial deepening and efficiency, while raising concerns about its potential in widening the digital divide between advanced and developing economies. The paper advances the discussion on the impact of this technology by distilling and categorizing the unique risks that it could pose to the integrity and stability of the financial system, policy challenges, and potential regulatory approaches. The evolving nature of this technology and its application in finance means that the full extent of its strengths and weaknesses is yet to be fully understood. Given the risk of unexpected pitfalls,

countries will need to strengthen prudential oversight.

â€¢ai for wealth management: AI Technology in Wealth Management Mahnoosh Mirghaemi, Karen Wendt, 2024-11-16 This book explores AI technology in wealth management, including what it is, how it changes the wealth management and private banking landscape, its advantages, and how it democratizes wealth management. Specifically, this book investigates topics such as Hyper-personalized investment strategies Combined quantitative analysis with sentiment analysis to create prescriptive and predictive scenarios Expandable and transparent AI algorithms in wealth management Customer experience and client engagement Tailored financial content Providing a clear and concise description of how AI driven wealth management differs from traditional investing, asset management, and wealth management offering new opportunities for investing, this book is ideal for students, scholars, researchers and professionals interested in accessible wealth management applications for investing in the 21st century.

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â€¢ai for wealth management: Modern Asset Allocation for Wealth Management David M. Berns, 2020-06-03 An authoritative resource for the wealth management industry that bridges the gap between

modern perspectives on asset allocation and practical implementation An advanced yet practical dive into the world of asset allocation, *Modern Asset Allocation for Wealth Management* provides the knowledge financial advisors and their robo-advisor counterparts need to reclaim ownership of the asset allocation component of their fiduciary responsibility. Wealth management practitioners are commonly taught the traditional mean-variance approach in CFA and similar curricula, a method with increasingly limited applicability given the evolution of investment products and our understanding of real-world client preferences. Additionally, financial advisors and researchers typically receive little to no training on how to implement a robust asset allocation framework, a conceptually simple yet practically very challenging task. This timely book offers professional wealth managers and researchers an up-to-date and implementable toolset for managing client portfolios. The information presented in this book far exceeds the basic models and heuristics most commonly used today, presenting advances in asset allocation that have been isolated to academic and institutional portfolio management settings until now, while simultaneously providing a clear framework that advisors can immediately deploy. This rigorous manuscript covers all aspects of creating client portfolios: setting client risk preferences, deciding which assets to include in the portfolio mix, forecasting future asset performance, and running an optimization to set a final allocation. An important resource for all wealth management fiduciaries, this book enables readers to:

- Implement a rigorous yet streamlined asset allocation framework that they can stand behind with conviction
- Deploy both neo-classical and behavioral elements of client preferences to more accurately establish a client risk profile
- Incorporate client financial goals into the asset allocation process systematically and precisely with a simple balance sheet model
- Create a systematic framework for justifying which assets should be included in client portfolios
- Build capital market assumptions from historical data via a statistically sound and intuitive process
- Run optimization methods that respect complex client preferences and real-world asset characteristics

Modern Asset Allocation for Wealth Management is ideal for practicing financial advisors and researchers in both traditional and robo-advisor settings, as well as advanced undergraduate and graduate courses on asset allocation.

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how collisions between AI-driven/digital and traditional/analog firms are reshaping competition, altering the structure of our economy, and forcing traditional companies to rearchitect their operating models Explain the opportunities and risks created by digital firms Describe the new challenges and responsibilities for the leaders of both digital and traditional firms Packed with examples—including many from the most powerful and innovative global, AI-driven competitors—and based on research in hundreds of firms across many sectors, this is your essential guide for rethinking how your firm competes and operates in the era of AI.

â€fâ€fai for wealth management: Artificial Intelligence in Banking Introbooks, 2020-04-07 In these highly competitive times and with so many technological advancements, it is impossible for any industry to remain isolated and untouched by innovations. In this era of digital economy, the banking sector cannot exist and operate without the various digital tools offered by the ever new innovations happening in the field of Artificial Intelligence (AI) and its sub-set technologies. New technologies have enabled incredible progression in the finance industry. Artificial Intelligence (AI) and Machine Learning (ML) have provided the investors and customers with more innovative tools, new types of financial products and a new potential for growth.According to Cathy Bessant (the Chief Operations and Technology Officer, Bank of America), AI is not just a technology discussion. It is also a discussion about data and how it is used and protected. She says, In a world focused on using AI in new ways, we're focused on using it wisely and responsibly.

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providing wealth advice for clients. AI and the Future of Banking provides new and established banking industry professionals with the essential information on the implications of data and analytics on their roles, responsibilities and personal career development. Unlike existing books on the subject which tend to be overly technical and complex, this accessible, reader-friendly guide is designed to be easily understood by any banking professional with limited or no IT background. Chapters focus on practical guidance on the use of analytics to improve operational effectiveness, customer retention and finance and risk management. Theory and published case studies are clearly explained, whilst considerations such as operating costs, regulation and market saturation are discussed in real-world context. Written by a recognised expert in AI and Advanced Analytics, this book: Explores the numerous applications for Advanced Analytics and AI in various areas of banking and finance Offers advice on the most effective ways to integrate AI into existing bank ecosystems Suggests alternative and complementary visions for the future of banking, addressing issues like branch transformation, new models of universal banking and “debranding” Explains the concept of “Open Banking,” which securely shares information without needing to reveal passwords Addresses the development of leadership relative to AI adoption in the banking industry AI and the Future of Banking is an informative and up-to-date resource for bank executives and managers, new entrants to the banking industry, financial technology and financial services practitioners and students in postgraduate finance and banking courses.

“AI for wealth management: Artificial Intelligence for Finance Executives Alexis Besse, 2021-03-20 We often hear that AI is revolutionising the financial sector, like no other technology has done before. This book looks beyond these clichés and explores all aspects of this transformation at a deep level. It spells out a vision for the future and answers many questions that are routinely ignored. What do we mean by Artificial Intelligence in finance? How do we move past the myths and misconceptions to reveal the key driving forces? What are the industry trends that align with this transformation? Is it the explosion of digital touchpoints in retail, the reduced risk taking by investment banks, or the ascent of passive funds in asset management? How do we develop concrete use cases from idea generation to production? How do we engineer systems to make accurate predictions, offer recommendations to clients, or analyse unstructured news data? How do we build a successful data-driven organisation? What are the key pitfalls to avoid? Is it about culture, data governance, or management vision? What are the risks specific to developing AI technologies? Can we humans understand and explain what the machines produce for us? Can we trust their predictions or actions? What is the role of alternative data in all this? How can we put it to use for augmented insight? What are the problems that AI is well equipped to solve? Is it all about neural networks and deep learning, as we regularly hear in the popular press? How do we understand human language, a task so important to the financial analyst? » The book is packed with concrete examples from the various disciplines of finance. Interested readers will also develop a deep understanding of AI algorithms - presented in plain English - and learn how to solve the most challenging problems. But first and foremost, it is a practical book that equips finance executives with everything they need to understand this transformation and to become agents of change

themselves.

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â€¢â€¢ai for wealth management: Machine Learning for Asset Managers Marcos M. LÃ³pez de Prado, 2020-04-22 Successful investment strategies are specific implementations of general theories. An investment strategy that lacks a theoretical justification is likely to be false. Hence, an asset manager should concentrate her efforts on developing a theory rather than on backtesting potential trading rules. The purpose of this Element is to introduce machine learning (ML) tools that can help asset managers discover economic and financial theories. ML is not a black box, and it does not necessarily overfit. ML tools complement rather than replace the classical statistical methods. Some of ML's strengths include (1) a focus on out-of-sample predictability over variance adjudication;

(2) the use of computational methods to avoid relying on (potentially unrealistic) assumptions; (3) the ability to learn complex specifications, including nonlinear, hierarchical, and noncontinuous interaction effects in a high-dimensional space; and (4) the ability to disentangle the variable search from the specification search, robust to multicollinearity and other substitution effects.

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intelligence to work now, in the real world. His key recommendation: don't go for the "moonshot" (curing cancer, or synthesizing all investment knowledge); look for the "low-hanging fruit" to make your company more efficient. Davenport explains that the business value AI offers is solid rather than sexy or splashy. AI will improve products and processes and make decisions better informed—important but largely invisible tasks. AI technologies won't replace human workers but augment their capabilities, with smart machines to work alongside smart people. AI can automate structured and repetitive work; provide extensive analysis of data through machine learning ("analytics on steroids"), and engage with customers and employees via chatbots and intelligent agents. Companies should experiment with these technologies and develop their own expertise. Davenport describes the major AI technologies and explains how they are being used, reports on the AI work done by large commercial enterprises like Amazon and Google, and outlines strategies and steps to becoming a cognitive corporation. This book provides an invaluable guide to the real-world future of business AI. A book in the Management on the Cutting Edge series, published in cooperation with MIT Sloan Management Review.

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practical tools in the form of workshop chapters throughout, this book is the ultimate resource for creating competitive advantage through connected relationships with your customers and redefined connections in your industry.

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â€¢ai for wealth management: Robo-Advisory Peter Scholz, 2020-12-28 Robo-Advisory is a field that has gained momentum over recent years, propelled by the increasing digitalization and automation of global financial markets. More and more money has been flowing into automated advisory, raising essential questions regarding the foundations, mechanics, and performance of such solutions. However, a comprehensive summary taking stock of this new solution at the intersection of finance and technology with consideration for both aspects of theory and implementation has so far been wanting. This book offers such a summary, providing unique insights into the state of Robo-Advisory. Drawing on a pool of expert authors from within the field, this edited collection aims at being the vital go-to resource for academics, students, policy-makers, and practitioners alike wishing to engage with the topic. Split into four parts, the book begins with a survey of academic literature and its key insights paired with an analysis of market developments in Robo-Advisory thus far. The second part tackles specific questions of implementation, which are complemented by practical case studies in Part III. Finally, the fourth part looks ahead to the future, addressing questions of key importance such as artificial intelligence, big data, and social networks. Thereby, this timely book conveys both a comprehensive grasp of the status-quo as well as a guiding outlook onto future trends and developments within the field.

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learning will drive a massive reshaping of the economy and society. What should you and your company be doing right now to ensure that your business is poised for success? These articles by AI experts and consultants will help you understand today's essential thinking on what AI is capable of now, how to adopt it in your organization, and how the technology is likely to evolve in the near future. Artificial Intelligence: The Insights You Need from Harvard Business Review will help you spearhead important conversations, get going on the right AI initiatives for your company, and capitalize on the opportunity of the machine intelligence revolution. Catch up on current topics and deepen your understanding of them with the Insights You Need series from Harvard Business Review. Featuring some of HBR's best and most recent thinking, Insights You Need titles are both a primer on today's most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company and what it will mean for you and your business.

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capitalize on this lucrative market. As a primer on WealthTech it offers academics clear insight into the repercussions of profoundly changing business models. It furthermore highlights the concept of the ongoing democratization of wealth management towards a more efficient and client-centric advisory process, free of entry hurdles. This book aggregates facts, expertise, insights and acumen from industry experts to provide answers on various questions including: Who are the key players in WealthTech? What is fueling its exponential growth? What are the key technologies behind WealthTech? How do regulators respond? What are the risks? What is the reaction of incumbent players? This book not only seeks to answer these questions but also touches on a series of related topics: â€¢ Get up to speed on the latest industry developments â€¢ Understand the driving forces behind the rise of WealthTech â€¢ Realize the depth and breadth of WealthTech â€¢ Discover how investors react to the growth in WealthTech â€¢ Learn how regulators influence the evolution of WealthTech business models â€¢ Examine the market dynamics of the WealthTech revolution â€¢ Grasp the industryâ€™s potential and its effects on connected sectors â€¢ Build acumen on investment and entrepreneurial opportunities A unique product for the market place Digital transformation is creating game-changing opportunities and disruptions across industries and businesses. One industry where these game-changing opportunities will have profound impacts is wealth and asset management. For generations, wealth and asset management was a privileged service provided to co-operations and wealthy individuals. The informational advantages that wealth managers held vis-a-vis their clients provided a key competitive differentiator. In the current digital transformation climate, this differentiator is vanishing and the setting is changing. A top priority on the agenda for any wealth and asset manager must therefore be how to respond and prepare for the ramifications of this fast changing business environment. This book (one of the first to be published in this area) will provide the reader with a head start in adapting to this new digital environment.

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Artificial Intelligence for Audit, Forensic Accounting, and Valuation AI Naqvi, 2020-08-25 Strategically integrate AI into your organization to compete in the tech era The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform accounting and auditing professions, yet its current application within these areas is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation accounting. Artificial Intelligence for Audit, Forensic Accounting, and Valuation provides a strategic viewpoint on how AI can be comprehensively integrated within audit management, leading to better automated models, forensic accounting, and beyond. No other book on the market takes such a wide-ranging approach to using AI in audit and accounting. With this guide, you'll be able to build an innovative, automated accounting strategy, using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for audit and accounting firms. With better AI comes better results. If you aren't integrating AI and automation in the strategic DNA of your business, you're at risk of being left behind. See how artificial intelligence can form the cornerstone of integrated, automated audit and accounting services Learn how to build AI into your organization to remain competitive in the era of automation Go beyond siloed AI implementations to modernize and deliver results across the organization Understand and overcome the governance and leadership challenges inherent in AI strategy Accounting and auditing firms need a comprehensive framework for intelligent, automation-centric modernization. Artificial Intelligence for Audit, Forensic Accounting, and Valuation delivers just that—a plan to evolve legacy firms by building firmwide AI capabilities.

Ask a Manager Alison Green, 2018-05-01 From the creator of the popular website Ask a Manager and New York's work-advice columnist comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There's a reason Alison Green has been called “the Dear Abby of the work world.” Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don't know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You'll learn what to say when coworkers push their work on you—then take credit for it—when you accidentally trash-talk someone in an email then hit reply—all of the “you’re being micromanaged” or “not being managed at all” you catch a colleague in a lie—when your boss seems unhappy with your work—when your cubemate's loud speakerphone is making you homicidal—when you got drunk at the holiday party Praise for Ask a Manager “A must-read for anyone who works . . . [Alison Green's] advice boils down to the idea

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