

L'INTELLIGENZA ARTIFICIALE NELL'AMBITO DELL'ATTIVITA' D'IMPRESA

L'intelligenza artificiale: preliminari riflessioni circa l'applicazione nella revisione legale dei conti

17/07/2025

Andrea Ardemagni

Un' interessante ricerca...



Fondazione Piero Piccatti e Aldo Milanese ORDINE DOTTORI COMMERCIALISTI ED ESPERTI CONTABILI TORINO

Human + AI in Accounting: Early Evidence from the Field

Jung Ho Choi Graduate School of Business Stanford University

Chloe Xie Sloan School of Management Massachusetts Institute of Technology

May 3, 2025

Abstract

This paper provides early evidence on the integration and impact of Generative Artificial Intelligence (AI) in accounting at the accountant and task levels. Using a multi-method approach, we first identify heterogeneous adoption patterns, perceived benefits, and key concerns through panel survey data from 277 accountants. We then formalize these survey-based insights using a stylized theoretical model to generate corroborating predictions. Finally, partnering with a technology firm that provides AI-based accounting software, we analyze unique field data from 79 small- and mid-sized firms, covering hundreds of thousands of transactions. We document significant productivity gains among AI adopters, including a 55% increase in weekly client support and a reallocation of approximately 8.5% of accountant time from routine data entry toward high-value tasks such as business communication and quality assurance. AI usage further corresponds to improved financial reporting quality, evidenced by a 12% increase in general ledger granularity and a 7.5-day reduction in monthly close time. We also find complementarities between AI and accountant expertise: experienced professionals selectively leverage AI automation and expertise increases intervention when AI confidence scores signal uncertainty. Preliminary analysis from a supplementary pilot framed field experiment sheds light on the potential impact of AI errors. Overall, our findings highlight AI's role in potentially augmenting, rather than replacing, professional accounting expertise.

Keywords: Generative AI, Accounting, Bookkeeping, Accountant, Labor, Technology Adoption, Large Language Model, Human + AI

Sul campione analizzato (SME USA), l'indagine evidenzia:

- 38% dei contabili ha integrato l'Al nelle proprie attività,
- solo il 10% la usa quotidianamente, usi principali: data entry, categorizzazione delle transazioni e l'elaborazione preliminare delle informazioni,
- riallocazione di circa l'8,5% del tempo (3,5h per sett) da attività di data entry routinarie verso compiti a maggior valore aggiunto, come:
 - **Controllo qualità:** aumento del 12% nella granularità dei controlli grazie all'automazione dell'elaborazione dei dati e alla segnalazione in tempo reale di anomalie
 - *Efficienza:* riduzione di 7,5 giorni nei tempi di chiusura mensile
 - Comunicazione con il cliente: + 55% nel supporto settimanale ai clienti e aumento delle ore fatturabili (+21%)

... le conclusioni



I risultati evidenziano:

- complementarità tra gli strumenti di Intelligenza Artificiale e l'expertise umana: piuttosto che rendere obsoleti i contabili, l'IA sembra essere più efficace come strumento collaborativo che lavora in sinergia con il giudizio professionale;
- i contabili più esperti tendono ad utilizzare il sistema di IA in modo più strategico e ottengono benefici prestazionali maggiori, quando l'IA è incerta su come classificare una transazione o rilevare un'anomalia, i contabili esperti intervengono per applicare il proprio giudizio, correggere potenziali errori o affinare l'output dell'IA.
- La tecnologia automatizza gli aspetti più routinari della contabilità e fornisce supporto decisionale, ma il ruolo del contabile resta fondamentale per supervisionare l'IA e gestire i casi nuovi o complessi, l'expertise del contabile garantisce che i risultati finali siano solidi e adeguati al contesto.

EY: Responsible AI Principles

Ordine dei Dottori Commercialisti e degli Esperti Contabili di Torino







The detailed definitions for EY responsible AI principles have been crafted and cross-validated with leading ethical frameworks and standards on Al, including those outlined by National Institute of Standards and Technology (NIST), International Organization for Standardization (ISO), the Organization for Economic Cooperation and Development (OECD), the European Union's highlevel expert group (HLEG), as well as key Al-related EY activities (e.g., EY.ai Confidence Index, EY Responsible Al Readiness Assessment).

Definition of AI

Artificial intelligence (AI) is a machine-based system that infers from input and data it receives how to generate outputs, such as predictions, content, recommendations or decisions that can influence physical or virtual environments. While shaped by human objectives and values, AI systems vary in their autonomy and adaptability after deployment.



The detailed definitions for EY responsible AI principles have been crafted and cross-validated with leading ethical frameworks and standards on AI, including those outlined by National Institute of Standards and Technology (NIST), International Organization for Standardization (ISO), the Organization for Economic Cooperation and Development (OECD), the European Union's highlevel expert group (HLEG), as well as key Al-related EY activities (e.g., EY.ai Confidence Index, EY **Responsible AI Readiness** Assessment).

Large-scale integration of leading-edge AI technology into global Assurance technology platform

Insights Services Industries Careers About us

🔍 Search 🛛 😩 My EY 🌐 Global English 🔨

ondazione

ORDINE DOTTORI

Piero Piccatti e Aldo Milanese

Ordine dei

di Torino

Dottori Commercialisti

e deali Esperti Contabili

Press release

EY

09 Apr 2025 | London, GB

EY announces large-scale integration of leading-edge Al technology into global Assurance technology platform

Press contact



Emile Abu-Shakra EY Global Media Relations and Social Media Associate Director - Tax and Assurance



- Latest phase of US\$1b technology investment introduces series of AI-powered capabilities to accelerate audit transformation.
- Includes EYQ Assurance Knowledge a GenAI-powered capability which searches and summarizes accounting and auditing content.
- Announcement marks the beginning of next phase of EY investment in technology and related services, harnessing the expanding potential of AI.

EY has announced the latest milestone in its groundbreaking US\$1b, four-year Assurance technology investment - an industry-leading series of capabilities which bring artificial intelligence (AI) at scale to support the organization's 160,000+ audit engagements around the world.

The new releases are part of the EY organization's ongoing audit transformation program and introduce new technology to its next-generation Alpowered platform. This forms part of its commitment to drive audit quality and promote confidence in the capital markets; transform the audit experience; and inform stakeholders with technology-centric and data-enabled perspectives.

Related topics

Next and beyond: Investment outlook and focus areas 2025 Key Assurance Technology Releases

Ordine dei Dottori Commercialisti e degli Esperti Contabili di Torino

Fondazione Piero Piccatti e Aldo Milanese ORDINE DOTTORI COMMERCIALISTI ED ESPERTIC CONTABLI

5

Core transformation areas

User experience and collaboration

- Integrate data, knowledge and guidance under a seamless, unified platform with access via a single point of entry
- Deploy a harmonized and highly intuitive user interface across all technologies to enable a more personalized user experience
- Enhance visibility through audiencespecific portals that give a clearer picture, including critical data, insights and recommendations

Key benefits

- Redefining the audit experience for both EY teams and audited companies
- Interactive presentation of relevant information and insights tailored to the needs of different user groups
- Driving quality by elevating the skills and experience of EY teams

Data access and analytics

- Facilitate access to a wider universe of company and third-party information by expanding data acquisition capabilities
- Pair integration of advanced technology such as predictive analytics and process mining with customized benchmarking
- Embed broader Assurance capabilities to maximize the use of both financial and non-financial data

Key benefits

- Simplified data access that fully leverages companies' technology and reduces administrative burden
- Leveraging new types of data to help drive continued quality
- Insights across a broader spectrum of information

AI and business intelligence

• Leverage advanced AI to help inform and guide audit teams, based on learnings from over 120,000 EY Assurance professionals globally

G

- Enable smarter workflow that uses data and insights to provide enhanced risk guidance and relevant recommendations to EY teams
- Further centralize, standardize and automate routine audit activities and processes to allow increased focus on risk

Key benefits

- Harnessing learnings to continuously enhance audit quality
- Enabling a broader perspective and fresh insights by leveraging collective knowledge
- Allowing increased focus on higher risk and complex judgment areas

EYQ Assurance Knowledge

Unlock the power of generative AI (GenAI). EYQ Assurance Knowledge is a dynamic chat interface integrated directly into EY Canvas, the EY cloud-based global audit platform. It responds to EY teams' questions based on authoritative guidance from EY Atlas, the EY accounting and auditing knowledge repository.

2x

faster search experience for EY teams

Features

Benefits

Drives audit quality

Conversation-based queries simplify access to the EY accounting and auditing knowledge repository, enabling EY teams to easily obtain the right guidance to execute high-quality audits in compliance with global and local regulations.

Enhances audit delivery

GenAI-enabled search and summarization provides tailored responses based on the profile of the audit engagement, helping EY teams get to the right answer, faster.

Informs decision making

Provides EY teams with an enhanced perspective, helping to resolve questions, supported by a clarified viewpoint and access to relevant sources to evaluate technical topics and facilitate decision-making.

	Engagement overview			EYQ Assurance Knowledge Videos 3				
	View by user View by user	View by time phase View by time	Oue on or before	Welcome to the EYQ Assurance Knowledge assistant offering context-				
🖄 Tasks		Documents Review notes		driven insights, dynamic chat experience, and facilitating task execution.				
	Scope & strategy \rightarrow	Execution \rightarrow	Conclusi	Hi Mel, how can I help you today?				
	Total Open In progr In review Complet 68 67 1 0 0 Launch guided workflow	Total Open In progr In review Complet 54. 54. 0 0 0	Total 22					
	Risks \rightarrow	SCOTs \rightarrow	IT proce					
	Total Open In progr In review Complet O O O O O O	Total Open In progr In review Complet O O O O O O	Totai O					
	Milestones Select an audit phase below to view task com detailed progress for each milestone or time p	pletion by milestone. To view task completion by time ; phase, select Show details .						
	Scope & strategy 5 Execution 3	Conclusion View all		Ask or search for anything				
	2024	12 2025 01 02	03	Exercise professional judgment and review sources to evaluate responses. Audit evidences and client deliverables must only include content sourced directly free? Mats. Aligeneender responses (cucluing summaries) cannot be used as authoritative guidence. Assurance Generative AI Acceptable Use Policy				
	onfidence	C Experience	-	Perspective				

Integrated experience

By understanding audit terminology, the integrated chat interface allows users to quickly search audit methodology, with responses linked to source materials for validation and documentation.

Profile personalization

The capability understands the auditor's question and automatically contextualizes accounting and audit research for tailored and accurate responses.

Video recommendations

EY teams proactively receive recommendations like technology enablement videos based on the specific audit tasks they are working on, equipping professionals with the latest digital content.

EY Financial Statement Tie-Out

A solution that leverages artificial intelligence (AI) to bring intelligence and automation to financial statement tie-out procedures. The solution can now support financial statements prepared in English, Portuguese, Italian, German, French (France), Spanish (LATAM and Spain) and Japanese languages.

Drives audit quality

Automatic validations and standardized steps reduce the risk of errors, supporting EY teams to drive audit quality.

Benefits

Improves audit experience

Streamlined collaboration between audit professionals at the audited entity provides an improved audit experience

Accelerates issue resolution

Quick identification of action items – supported by AI – provides transparent and timely resolution of outstanding queries.

Dashboard	Clerical Accuracy 22%	Internal Consis	tency 10%		Prior Yea	r 0%		
Current year.pdf	0 0 0	1 Upload to C	Canvas 🎧 Up	load new version	Download file	(i) How it works		
ABC LIMITED	AND SUBSIDIARIES	Summary Version Tracker References Overview						
Notes to Combined Financial Statements – Statutory-Basis (continued) (In Theucandz)		Clerical Accuracy	Go to module \rightarrow					
			Reviewed	Pending	Differences	Comments		
5. Investments (continued)		22%	19/85	66/85	- 5	口 12		
contractual maturity, are shown below. Expec	ad fair value of bonds and other debt instruments, by cted maturities will differ from contractual maturities call or prepay obligations with or without call or	Reviewed	View	View	View	View		
	Carrying Fair Value Value	Internal Consistency			Go to module →			
Due in one year or less Due after one year through five years	\$ 17,526 \$ 17,336 180,961 174,828							
Due after five years through ten years Due after ten years through twenty years	68,231 58,652 90,712 67,558		Reviewed	Pending	Differences	Comments		
Due after twenty years Residential mortgage-backed securities	68,327 49,827 326,735 286,949	10% Reviewed	2/19	17/19	1 2	□ 2		
Commercial mortgage-backed securities Other loan-backed and structured securiti	ies <u> 435,837</u> <u> 309,364</u> <u> 5 1,494,757</u> <u> 5 1,331,327</u>		View	View	View	View		
In 2022, proceeds from sales of investments v of \$864. Gross gains of \$1,009 were recogn equity investments. In 2021, proceeds from s \$851 and gross losses of \$905. Gross gains of received from equity investments.	Prior Year	Go to module \rightarrow						
At December 31, 2022 and 2021, bonds respectively, were on deposit with various str	with a carrying value of \$10,911 and \$11,378,		Reviewed	Pending	Differences	Comments		
	ate insurance departments as required by law. n common stocks are reported directly in unassigned	0% Reviewed	0/25	25 /25	-1			
surplus and unrealized losses primarily relate continuous loss position for more than 12 mo	e to an investment in subsidiary, which has been in a	Reviewed	View	View	View	View		
PRELIMINARY AND TEN	TATIVE FOR DISCUSSION ONLY							
2305-4251731	21							
« < ;	2/10 > >>							

Features

★★★ Smarter review

Al reconciles the numbers, validates calculations and automatically detects differences – even in footnote disclosures – with dedicated modules for clerical accuracy, internal consistency, and prior year and version comparison.

Robust project management

The solution provides a "head start" on the tie-out process by automating preparatory steps. A userfriendly dashboard displays progress and prioritizes areas needing attention, facilitating improved project

management. Advanced collaboration

It assists professionals to work simultaneously on the same financial statements in a single shared view and leave comments for audit team members and finance teams from the audited entity.

★★★ New in 2025

EY Intelligent Checklists

Designed to streamline the preparation of financial statements and sustainability disclosure checklists.

Using the power of artificial intelligence (AI), EY Intelligent Checklists suggests answers* and allows auditors to review suggestions in context, streamlining the documentation process.

Benefits

Drives quality reporting

The ability to roll forward checklists from prior periods and use dedicated filters to review changes between periods, including AI suggestions*, helps EY teams to focus on questions and changes that matter most.

Improves the user experience

By using AI*, EY Intelligent Checklists suggests answers and allows auditors to review suggestions in context, helping to easily identify issues requiring resolution and streamlining the documentation process.

Increases transparency

Transparency is improved with the use of one single version of the checklist that displays updates in real time, with review comments directly integrated.

ABC Company □ ⑦ EY EY Intelligent Checklists Sample engagemen (P) (R)ABC Company | International GAAP® Disclosure Checklist June 2024 YE (Rev'd February 2024) Checklist not approved Yes 00 Filter panel EY EY User 1 28 Nov 2024- 04:21pm Mv auestions All auestions The entity has disclosed the adjustment to the opening balance of each affected component of equity. Progress 60% Accounting policies V.Notes and additional financial disclosures Al suggestion 8+ 🖵 🔉 🖹 Questions and answers summary (72) (j) Users 1. For each business combination during the reporting period (or after the reporting period, but before the financial statements are authorised for issue), does the entity disclose EY User 1 Client User 1 Client User 2 e) A qualitative description of the factors that make up the goodwill recognized, such as expected synergies from combining operations of the acquiree and the acquirer, intangible assets that do not qualify for separate 25 45 2 recognition or other factors Note: For example, if the entity granted stock options for the first time in the current year, complete the stock option Unassigned disclosures. Refer to Question 3 of our frequently asked questions for additional examples of items that may require questions an update to the prior responses EY Atlas Guidance Assigned guestions (72 (<u>*</u>→ Yes ∨) (N/A | ~) (No) Skip for now Unanswered Confidence Experience Perspective

Features

Agile and scalable

Checklists can be customized to meet companyspecific requirements and reporting needs, with intuitive navigation and workflow-driven processes.

Progress monitoring

Allows monitoring of the overall progress, the number of unanswered questions and the status of review notes, providing greater visibility and highlighting important changes for consideration.

Al suggestions*

Al suggestions are available directly in the checklist workflow, with additional dedicated filters that help EY teams assess the Al suggestions, enhancing supervision and facilitating review.

Imagine the potential impacts of AI three years from now?

Impact of

by 2028?

Ordine dei Dottori Commercialisti e degli Esperti Contabili di Torino

Fondazione Piero Piccatti e Aldo Milanese

AI driving 30% automation of selected processes (e.g., FP&A, close process)?

Could an organization's AI-enabled financial statement preparation be reviewed by the auditor's AI?

Embedded AI within ERP (e.g., S/4HANA)?

10

Audit Agent interfacing directly with client ERP Al Assistant to gather audit evidence?

GenAI enabling data collection and preparation for ESG reporting?

Auditors extensively utilizing AI to review ESGrelated disclosures? on AI investments, usage and risks?

Investors and analysts increasing pressure for reporting

High demand for certification of AI technology against recognized standards (e.g., ISO 42001)?

Higher risk of fraud through GenAI manipulation of documents, voice, text, video and data?

Potential for AI to be used to perpetuate fraud?

Five plus distinct AI regulatory frameworks established

– requiring geo-specific response?

* * * * | | | |

Auditors sharing insights on risk management and reporting requirements?

For companies

For auditors

9



<u>www.odcec.torino.it</u> <u>www.linkedin.com/company/odcec-torino/</u> <u>www.youtube.com/channel/UCBUHnLEOEHA6YY-MLr8vG8A/videos</u>