



Generative AI

What should tax directors
be thinking about?

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The re-imagining and improvement of processes through deployment of GenAI is no longer just for technology specialists – it is becoming a core part of the role of a Tax Director.

Introduction

In recent years, Generative AI has gained significant attention in the tax profession.

AI-enabled solutions have been available to tax teams for some time, but the emergence of large language models underpinning user-friendly chat interfaces has led to an explosion of interest and investment in new solutions. The re-imagining and improvement of processes through deployment of AI is no longer just for technology specialists – it is becoming a core part of the role of a Tax Director.

Rather than focus on a list of products and detailed use cases within tax, the aim of this publication is to help Tax Directors develop a framework for thinking strategically about how GenAI might be integrated within the tax function in the short, medium, and long term. Even discounting some of the hyperbole about GenAI, it is possible that the technology could develop faster than the time it typically takes for internal budgets to be secured for investment. Simply keeping up may be a major challenge. It will also be critical for tax departments to integrate their GenAI strategy with other areas of the businesses, such as finance, ERM, ERP systems, and so on. Tax processes must be integrated so that the AI is able to access and generate integrated data that reflects the entire value chain and risk profile/appetite of the organization in a consistent and reliable way.

Leaders of tax functions should ideally be developing a point of view on how GenAI can be harnessed, whether through leveraging business-wide solutions or more bespoke tax-specific applications. As well as focusing on the opportunity, Tax Directors will need to develop a strong understanding of the risks associated with deploying GenAI in each potential use case within the business, and its “trustworthiness,” especially from a quality and ethical perspective. Leaders should also be thinking about how they build a culture within their team that embraces new skills, new ways of working, and new approaches to problem-solving.

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What is Generative AI?

GenAI is a subset of artificial intelligence that empowers machines to create novel content, encompassing text, code, voice, images, videos, and processes.

The basic difference between traditional AI and GenAI is that the latter produces complex outputs based on the question or prompt provided by a user, hence the emphasis on the “creation” of content.

Though some forms of GenAI are already well established, it was the large language model (LLM) underpinning an accessible chat interface that triggered GenAI’s watershed moment.

In the context of business operations, GenAI can leverage data to create outputs and insights that can potentially serve the business and its stakeholders more efficiently and at a higher quality.



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What general capabilities of GenAI are most likely to be relevant in the short term?

Currently, the limiting factor is not so much the AI itself but the ability to safely and effectively harness its capabilities and embed it within a process or an organization.

There are some obvious areas where GenAI will be impactful across a range of business functions without the need for too much tailoring.

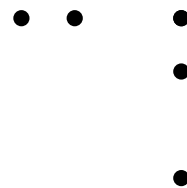
These more generic applications could be adopted business-wide and will be fuelled by data that is readily available in high volume from reliable, permissible internal and external sources. With these applications, the focus should be on identifying how the tools can be applied to tax function activities.

This is easier said than done and will require a deep practical understanding of the function's activities (what it spends its time doing), the inherent limitations in the GenAI technology, as well as a strong overlay of creativity, vision and self-challenge.

External perspective, whether from elsewhere in the business or an outside adviser, will really enrich this process through shared experience and constructive challenge of the status quo.



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Here are some of the applications of GenAI that are likely to fall into this category:



Textual content generation

Creating content based on input text examples, documents, data, or a specific theme. Examples include drafting memos, policies, advice, and communications.



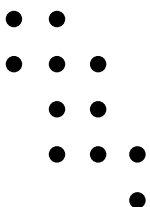
Classification

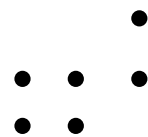
Assigning a category or label to a given input. This could include the classification of contracts and documents for due diligence purposes, or "tagging" data to create a smart, searchable knowledge management database



Summarization

Producing a concise summary of a long text or a collection of texts. Applications include summarizing due diligence reports, structure reports, domestic and international tax developments, case law. This can be extended to summaries of content generated in other formats, such as the production of meeting notes by converting complex oral data into text form.





Transformation

Converting content into a new type, format, or style. For example, using source data and narrative reporting from various parts of the business to create filing submissions that have to be prepared in a certain format (such as Country by Country Reporting).



Q&A

Providing a natural language answer to a natural language question based on a text or knowledge base (subject to some of the risks and limitations that we highlight later). This could be employed for tax self-service requests (e.g., in areas such as global mobility) or to answer repetitive questions that require a level of technical insight (e.g., the appropriate VAT or customs duty treatment of a supply).



Extraction

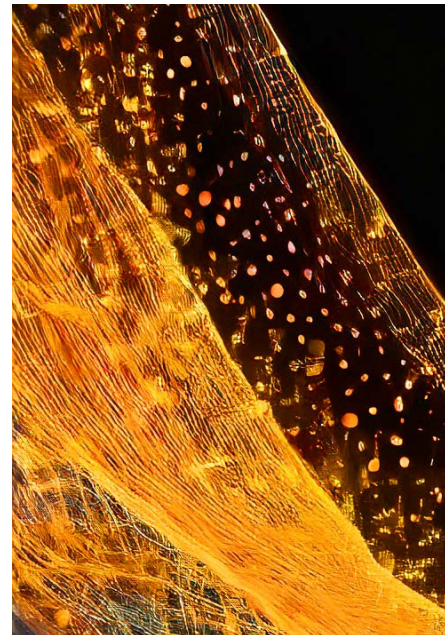
Deriving specific information or data points from a given input. A key use case could be tax due diligence.



Reasoning

Producing logical technical analysis given a context or knowledge base. Research on tax technical areas could be significantly enhanced.

More specific application to the tax function



As well as identifying use cases for business-wide GenAI tools, tax departments undertake a variety of specific activities that lend themselves to GenAI enablement.

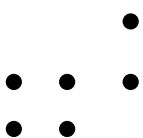
This may involve the creation or procurement of tax-specific AI, or the adaptation of tools that are deployed in other similar areas of the business (e.g., there may be compliance tools that can assist risk management and the tax departments, or which can be easily adapted between these areas).

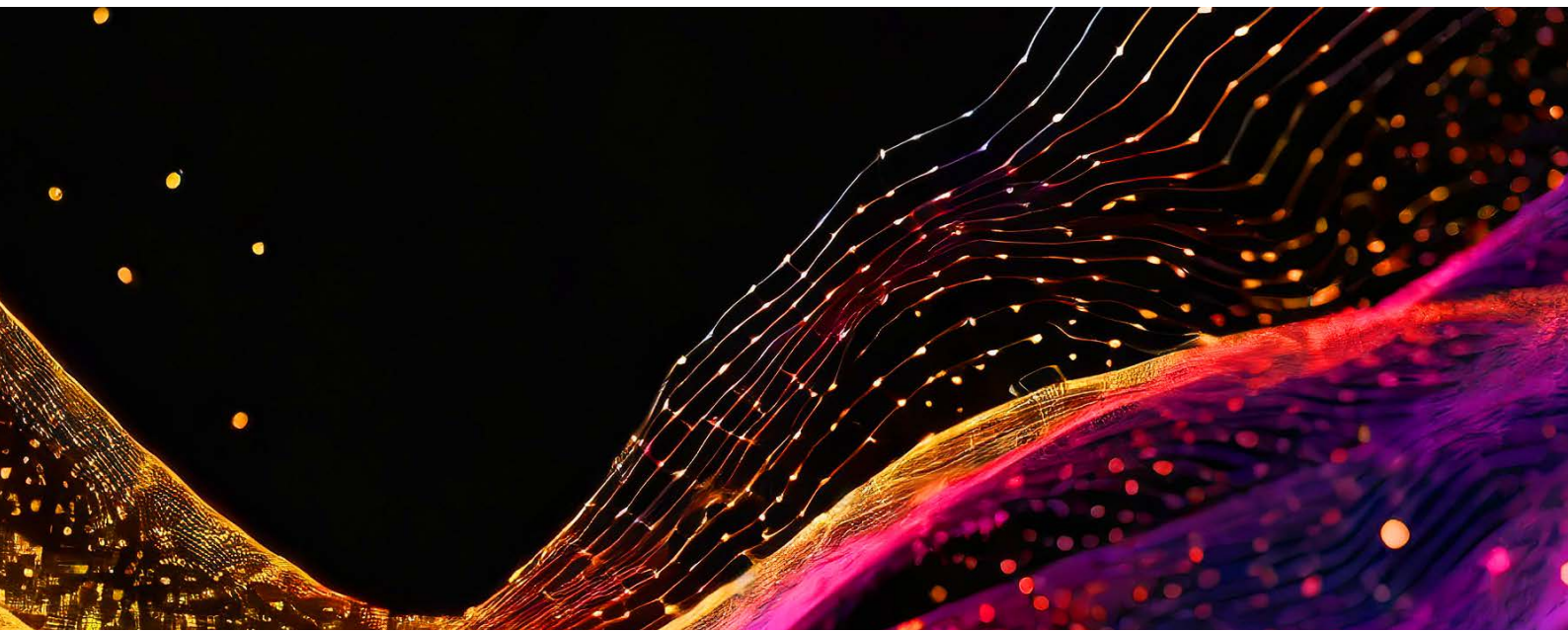
Tax leaders should consider involving specialist process mappers to determine each task that the department undertakes, and its interdependencies with other systems and teams and, from that, potential GenAI use cases.

At the core of this method are two of the most critical elements to consider: the human effort required to complete a task without GenAI, and the necessary effort to validate or fact check the output from the GenAI. This leads to a two-dimensional classification, categorizing use cases based on the required human effort and the ability of the user to validate the results.

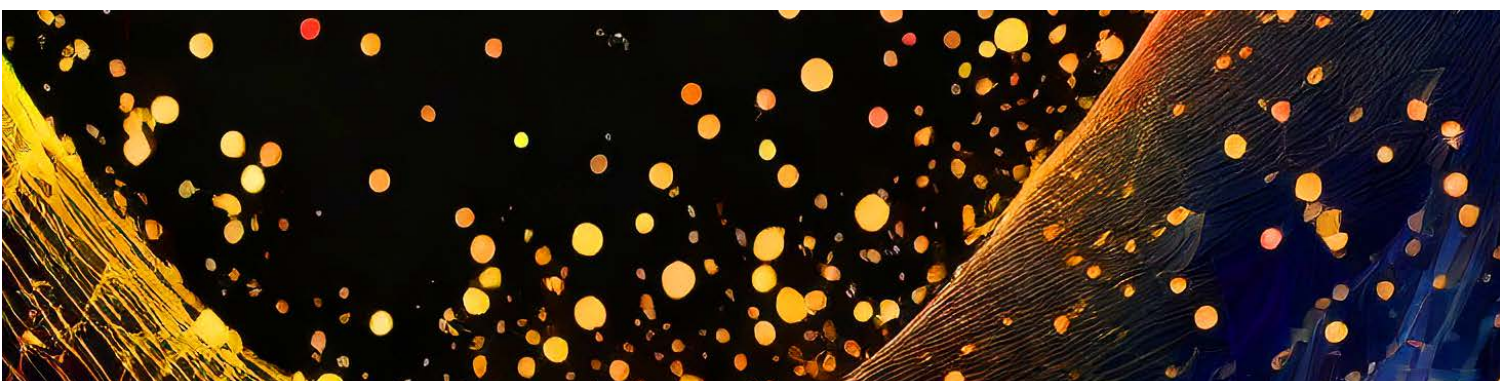
If a task requires effort to execute but is easy to validate, it has the hallmarks of a potential use case. Here are some examples of tax processes that could, in the future, be enhanced by GenAI:

- **Statutory tax compliance:** There is already significant scope for deployment of traditional AI in the preparation process and associated claims, and this may be an area of fast-paced development across jurisdictions. GenAI may enable more targeted risk management, greater efficiency, and it may take an integrated approach to the global data to identify opportunities for improvement. Interface with tax authority systems is an emerging theme and the addition of GenAI will bring some interesting opportunities and challenges for governments and taxpayers.



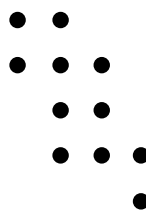


- **M&A:** Using LLMs to conduct more detailed due diligence across significantly larger data sets, potentially increasing the accuracy of target valuations and required contractual protections.
- **International structures:** Gaining a real-time understanding of the evolving tax regimes across all relevant jurisdictions and the generation of preliminary risk assessment prompts (potentially reducing the risks, costs, and time periods associated with manual assessment of complex data across multiple jurisdictions).
- **Knowledge management:** Generation of updates and briefings for the business, generation of training materials, and examination of knowledge assets (potentially reduces risk and upskills teams, improves the employee proposition).
- **Integrated systems:** Tax may become more fundamentally embedded in the broader Enterprise Risk Management and Enterprise Resource Planning frameworks, as those frameworks also transform with GenAI.
- **Procurement:** Automated RFP (request for proposal) response scoring and assessment (easing the burden of a complex process and encourages objectivity); comparison of work outputs with contractual scope and fees.



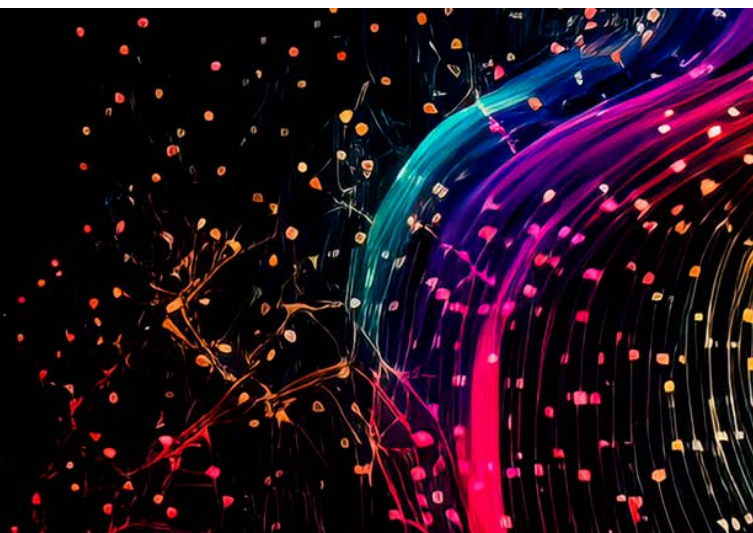


Getting started



Tax Directors are questioning where to begin, especially in the context of tax-specific GenAI

Being part of a community with other tax leaders and advisers addressing similar challenges may be a huge advantage in keeping up to date with trends and opportunities, but each business's needs will be different, so here are some key criteria to consider when evaluating GenAI use cases



Demand

- Is the process understood in sufficient detail to identify activities where AI may play a part? Ideally each process should be assessed at its most granular level.
- Is the volume of work sufficient to justify a solution? As with any automation, there may be incremental gains each time an activity is performed, but real economies of scale are achieved only when the activity is performed at a reasonably high frequency and/or over an extended period.
- Does the current work require enough human effort to warrant an GenAI solution? A greater return on investment may be achieved if the work being augmented by GenAI currently requires a reasonable amount of human effort.
- Is there scope for GenAI to deliver higher quality (lower risk) outcomes, to reduce "key person" risk, and bring other sustainability improvements?
- There are many other digital and tech-based solutions that are not GenAI enabled, and which may be a viable and cost-effective alternative to both human hours and GenAI. For example, taking advantage of off-the-shelf coding platforms to build digital and robotic solutions. The current focus on GenAI should catalyze a broader look at the available options. In practice, a process will be tackled with a combination of technologies, of which GenAI will be one aspect.
- What cultural barriers exist within the organization and/or the team, and how can these be navigated?





Feasibility

- Does the work involve the creation of a digital artifact? GenAI is about generating content. For GenAI, it is key, therefore, to focus on activities that involve such content generation. Without this feature, traditional AI and other digital solutions could deliver the desired outcomes.
- How much human effort is required to verify the accuracy of the AI result? GenAI is based on statistics and is not 100% accurate. The outputs from GenAI, therefore require validation (see Risks below). If a disproportionate amount of effort is required to validate the outputs of the AI, it may make more sense to continue with the more traditional approach. GenAI use cases will be those where the output can be validated with lower amounts of human effort.
- Who possesses the subject matter expertise to feed into the model and validate its outputs? When considering use cases, thought needs to be given to who has the underlying subject matter expertise to create the most appropriate solution – is it publicly available, can it be acquired/licensed, or does it need to be created? Is the organization willing to invest in building the appropriate skills within the team in core areas such as “prompt engineering” (so that teams can extract the most effective outputs from GenAI) as well as in more complex areas?
 - Should a generic solution be used, or a tax-specific one? If so, should an “off the shelf” solution be used, or should something bespoke be created?
 - Have AI developments brought about new/better opportunities to outsource or to partner with an external provider?
 - Data is GenAI’s basic fuel. Is there sufficient volume of quality data accessible to the organization and at what cost? What are the limitations associated with leveraging and handling the outputs of the GenAI? Does the data need to be adapted before it can be leveraged in GenAI? Does the organization have sufficient protection from the GenAI provider to allow it to process sensitive data through the tool? Where data is limited, are there opportunities to safely synthesize it or purchase synthesized data from third parties? If a data set is indeed supplemented by third-party information, has the organization ensured that any GenAI processing fully complies with the limitations and terms of the license agreement? Organizations should be evolving their data strategies and data governance approaches to cater for the additional complexities of AI and tax teams should tap into that activity.
 - How does the proposed GenAI deployment fit within the organization’s own governance and ethics framework? In particular, the maturity of the IT governance framework and infrastructure may enable or limit the scope to effectively deploy GenAI.

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At this early stage of use of GenAI, we believe there will be a mix of approaches, depending on the specifics of each organization and use case. Over time, as the use of the technology evolves, clear trends and common practices will emerge.

We should also recognize that GenAI is developing at such a pace that today’s infeasible use case may easily become tomorrow’s “big win” (e.g., through improvements in the technology, lowering of costs, and changes in the organization’s own approach). Decisions therefore need to be kept under periodic review.

Risks associated with GenAI



Many of these risks are common to GenAI in general but are particularly resonant in a tax context due to the fundamental requirement for absolute auditable accuracy. Here are a few of the main areas of consideration:



Data Strategy and Governance

Data Strategy and Governance is fundamental to effective and safe use of GenAI. What data is being used? What permissions are required? What assurances are there as to accuracy and origin? What data is being shared (e.g., with technology providers and other external parties, perhaps even with competitors, government and other stakeholders) and is this permissible/desirable/understood? What data security measures are required? What local regulatory rules may apply? Is IP being protected, or might a service provider be using an organization's IP to train its AI model for others' use? This is a significant area of focus.



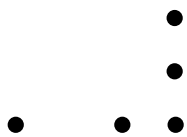
Bias

The data from which GenAI sources its conclusions may contain inherent bias, and bias may also be introduced in the course of developing GenAI solutions. Of course, whether GenAI leads to more or less bias than human-orientated systems is the real question, as the latter is also prone to bias.



Other ethical considerations

These are wide-ranging and depend to some extent on the organization and the way that AI is to be used. Ethics may be concerned with local issues, such as whether AI creates a less even playing field in dealing with customers or staff. It is also concerned with societal issues; for example, the role that social media companies may inadvertently play in the dissemination of AI-generated material.



“Hallucinations”

As GenAI models operate on the basis of mathematical probabilities, there is a risk of generating incorrect outputs. While this risk diminishes with more domain-specific models, it is crucial to validate the model's output. Human intervention, coupled with other forms of technology, must be overlaid.



Return on Investment

Determining a cost-benefit analysis could be complicated in terms of factoring in the tangible and intangible aspects, and the dynamics could change very quickly as the cost of emerging technologies is driven down.



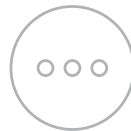
Obsolescence

Will bespoke solutions become obsolete when large technology and service providers release industry-standard tools? What are the maintenance costs?



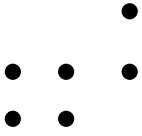
Expertise

Do you have the appropriate experts to partner with you through this journey? What skills need to be developed or hired within teams to use GenAI as safely and effectively as possible?



Inactivity

Moving too slowly carries its own risks through lost opportunity, perception that the team is resistant to change, and the potential demotivation of high-performing team members who may relish the professional and developmental opportunity to embrace GenAI.

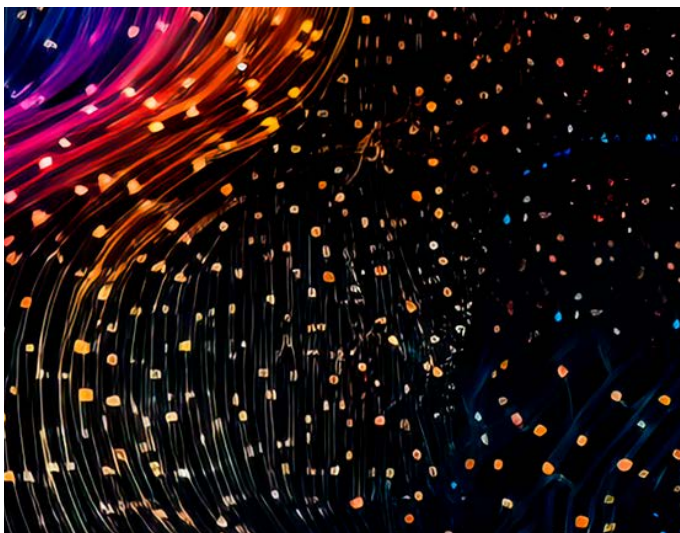


For deployments of GenAI in tax functions there are several specific risk areas to consider:

- If GenAI tools are used to research technical topics, what are the limitations of the source data and what areas of implicit bias may be present?
- Some areas of tax are relatively niche, and the quantity and quality of data and precedent in the public domain from which AI can draw may be too limited to generate reliable conclusions. It is important that this is evident to the user (e.g., if the AI can also provide a confidence measure). It may be possible to develop synthetic data with which to “teach” the GenAI within proprietary systems to help address this problem.
- Users will need an audit trail to support decisions taken in materials such as tax returns. If GenAI is used to generate some of the underlying data, the ultimate sources will need to be apparent to the user, ideally alongside the weighting that the AI may have placed on different sources (noting, however, that GenAI can “hallucinate” its source references in the same way that it can create fictitious outputs). For instance, sources that are more frequent and which are based on legislation should carry higher weight than less frequent sources and those based on opinions expressed by commentators.
- It will need to be transparent to all stakeholders where AI has been deployed. If junior team members have used it to research topics, then the senior reviewer needs to be aware. Best practice for research documents is that they include sources and disclosure of GenAI deployment.
- We have yet to see how governments, individually and collectively, will seek to regulate AI.



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Trustworthy AI

Trustworthy AI encompasses areas such as human agency and oversight, technical robustness and accuracy, privacy and data governance, transparency, fairness, non-discrimination, and other ethical principles.

Applying these principles in the tax environment involves reflection about a number of areas before embracing a given GenAI use case, such as:

- Can it deliver a high-impact and value-added outcome without compromising on quality or introducing new risks?
- Do we fully understand the role that it is playing in a process? All tax decisions need to be supportable and auditable.
- There are significant unknowns about how GenAI really operates, behaves, and will evolve. Rigorous testing, experimentation, and monitoring are essential to mitigate the risks of unintended consequences.

In summary, before embracing any GenAI use case, teams need to have fluency with the technology itself and the broader risks. Policies need to be developed so that team members know how to use it safely within the organization's established risk framework.

Developing a longer-term strategy to harness GenAI

As GenAI technology becomes more pervasive, the traditional boundaries between organizational activities may blur and new ones form.

Currently, many teams exist to provide a service to the wider business (often these are teams that are referred to as “in-house,” as in, in-house tax functions, etc.).

GenAI will challenge this notion of service-provision as many of the activities will instead be founded on huge amounts of centrally curated internal and external data, with that data not merely informing but also driving the operations and decision-making in new ways.

Developing the example of an organization’s internal tax team, traditional tax teams often exist as a defined reporting unit because organizations often organize teams around skills-based competencies.

With the greater automation and integration that GenAI will bring, combining human and machine capabilities in new ways may prompt review of traditional operating and staffing models.

The emphasis on governance here may seem strange because we normally view tax governance as a part of compliance and risk. However, as we have seen, GenAI will bring with it a need for a significant focus on Data and Information Governance to manage the risks associated with GenAI, including in relation to tax.



GenAI will bring with it a need for a significant focus on Data and Information Governance.

Conclusion

Some of the AI hype of the past 12 months may subside, but the potential of GenAI is huge and it will continue to develop rapidly. The potential application to the tax profession is clear, but there is much work to be done to shape the vision and the possibilities into practical and sustainable solutions that can be embedded, and which deliver real value.

At Deloitte, we focus on helping our clients seize the opportunities created by GenAI in tax, whether in specific use cases or broader strategic areas, always underpinned by our trustworthy AI principles. Our goal is to collaborate with our clients, whether on our own or with other technologies, to facilitate value led—and values led—adoption.

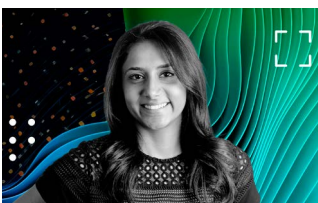
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