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Digital Leadership for Responsible AI Adoption: Linking Leadership Practices to Ethical Climate and Employee Performance

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Abstract

The rapid diffusion of artificial intelligence (AI) in organizations has intensified concerns about responsible adoption, particularly around fairness, transparency, privacy, and accountability. Yet, evidence remains fragmented on how leadership shapes the ethical conditions under which AI is introduced and used, and how these conditions translate into employee-level outcomes. This study aims to examine how digital leadership practices shapes ethical climate and employee performance in AI enabled workplaces using a secondary-data design, that synthesizes evidence from publicly available sources—such as corporate responsible-AI policies, AI governance disclosures, regulatory and standards-based guidance, and existing survey datasets. Drawing on a multi-level theoretical lens, the study conceptualizes digital leadership for responsible AI as a bundle of practices including ethical role-modelling, data stewardship, stakeholder transparency, human oversight, workforce upskilling, and accountability mechanisms. Ethical climate is treated as the intervening organizational context that signals acceptable conduct in AI-enabled decision-making and work redesign. The analysis proposes and evaluates a mediated pathway in which stronger responsible-AI-oriented digital leadership is associated with a more positive ethical climate, which in turn relates to improved employee performance through higher trust, reduced perceived surveillance and bias, and greater technology acceptance. The findings of the study show that digital leadership is effective only when it includes ethical governance. Ethical climate plays an important role and responsible AI adoption enhances performance only when trust, transparency and fairness are present. By combining fragmented secondary evidence into a systematic explanatory model, this research provides a framework for assessing responsible AI leadership and actionable guidance for leaders seeking to realize AI's performance benefits without eroding ethical standards or employee well-being.

Keywords: Digital leadership, responsible AI, ethical climate, employee performance, AI governance, trust

Introduction

The digital technologies and, in particular, artificial intelligence (AI) are fast transforming the way work is designed by organizations, the way services are provided, and the performance of employees are assessed. However, with AI becoming part of decision-making and operations, companies are confronted with a twofold task: to gain the benefits of AI-enabled productivity and innovation and to ensure the responsible and ethical implementation of AI and make sure that it will not harm any employee, customer, or stakeholder at large. International governance organizations are more and more conceptualizing this as a transition to trustworthy or responsible AI with much attention to human rights, transparency, robustness, accountability, and societal well-being (OECD, 2019). As a matter of fact, though, organizations often find it very difficult to translate a set of general-level ethical principles into the day-to-day managerial practice, employee behavior and managerial performance results. This gap between principles and practices is what makes leadership and organizational climate the core of the debate on whether the adoption of responsible AI will be turned into the reality or will be a more of a policy ideal (NIST, 2023).

In this framework, the concept of digital leadership is emerging as an important source of effective digital transformation and technology adoption. Though the research on leadership has long established that leaders can influence employee attitudes and performance using their visions, support, and role-modeling, as well as providing resources, the AI-driven transformation brings new challenges: the risk of algorithmic opacification, the risk of bias, the privacy concern, the change in the skill demands and the sense of being surveilled or unfairly treated. Digital leaders should therefore not only champion technology but also take a proactive role in regulating the selection, implementation, monitoring and use of AI and ensure that the innovations are in line with ethical protection. The current academia tends to think of digital leadership as the ability of a leader to combine leadership skills with digital technologies to generate value in the organization, facilitate digital work, and lead change (Rudito and Sinaga, 2017; Wang et al., 2025). This perspective suggests that good digital leadership is not only technical literacy, but strategic sensemaking, change leadership, and the ability to build a culture of responsible digital practices, which is especially essential when it comes to AI, where mistakes or abuse can easily chip away the levels of employee trust.

Responsible AI adoption may be taken on at the organizational level as the intentional identification and utilization of AI systems in a manner that proactively recognizes and addresses ethical risks and impacts on society. Key frameworks define responsible AI as governance processes and controls to enhance trustworthiness throughout the AI lifecycle-system design, deployment, evaluation, monitoring and improvement. An example is the NIST AI Risk Management Framework (AI RMF), which focuses on voluntary yet organized practices in order to deal with AI risks to individuals, organizations, and society, clearly with a view to embedding trustworthiness concerns into AI practices in organizations (NIST, 2023). Similarly, OECD AI Principles emphasize that AI must be creative and responsible and maintain the human rights and democratic principles (OECD, 2019). Although such frameworks define what responsible AI ought to achieve, there is no automaticity on how daily

leadership and social systems at workplaces meet these requirements through teams and employees so as to achieve these standards on a regular basis.

It is here that the idea of ethical climate will have its theoretical and practical use. Ethical climate is the common understanding of what is ethically the right way to behave and how to address ethical concerns in an organization (Victor and Cullen, 1987, as it has been mentioned in Maesschalck, 2005). In contrast to individual ethics on its own, ethical climate represents a situational and group effect: it conveys to employees which behaviour is rewarded, tolerated or punished and which rules of decision-making (e.g., caring, rules, instrumental self-interest, independence) are legitimate in the workplace. The ethical climate is usually measured in terms of the Ethical Climate Questionnaire (ECQ), which was designed and tested to determine the various types of ethical climate at the personal and organizational levels (Victor & Cullen, 1993). The ethical climate is important in technology-intensive cultures since staff members tend to view ambiguous cases, including the need to accept or reject an AI suggestion, the need to report bias incidents, or the need to work with sensitive information, through the indicators of the senior leadership, policies, and group norms. In the case of ethical climate that promotes principled decision-making and psychological safety, there might be a higher likelihood of employees to oppose the problem, pursue governance processes, and utilize AI in a responsible manner. On the other hand, a culture that unspokenly compensates speed, short-term, or breaching of rules may promote the use of AI in a risky manner, the under-reporting of accidents, and ethics washing practices.

The connection between digital leadership and ethical climate is particularly appropriate to responsible AI adoption. There are several ways that leaders can affect ethical climate: they can convey organizational ethical norms, set ethical examples, distribute resources toward adherence and control, and implement checks and balances. These leadership mechanisms can take the form of establishing explicit AI-use policies, transparency in the impacts of AI on employee work, contestability and feedback opportunities, digital literacy and ethical training, and cross-functional stakeholder (e.g., HR, IT, legal, risk) involvement in AI governance in AI adoption. Opted in this manner, the adoption of responsible AI is not an undertaking of pure technical implementation, but rather an organizational change process driven by organizational priorities and organizational climate indicators. The systematic study of responsible AI emphasizes how abstract concepts may be converted into tangible practices, e.g., the governance framework, monitoring mechanisms, and accountability mechanisms, which implies that the aspects of the organization play a central role in ensuring responsible outcomes (Gunasekara et al., 2025).

This leadership-climate connection has even a more relevant connection to the outcomes of employees. The use of AI is often defended on the basis of expected performance benefits- better efficiency, quality, personalization and speed of decision-making. Nonetheless, the level of employee performance is influenced by the technology itself, and it is dependent on employee perception and use of new tools, their confidence in the AI-powered processes, and their sense of support and fair treatment. There is some new data that responsibility-focused AI practices have the potential to influence both worker experience and outcomes, such as well-

being and ethics-related perceptions, which, in turn, can enter the domain of performance-relevant attitudes and behaviors (Ye, 2025). When AI is introduced transparently, unfairly, or repressively the employees may react defensively, finding bypasses, decreasing their involvement, or cutting their discretionary effort the performance will suffer despite the potential of the technology itself. Conversely, in case the leaders develop an ethical climate that condones responsible AI utilization, employees can be more ready to study, cooperate with AI systems, and create in a responsible way.

Another trend towards which digital leadership scholarship is moving is the relationship between leadership practice and employee performance and outcomes (e.g., empowerment, engagement, innovative behavior), a connection that, in my view, a techno-savvy leader can maximize the potential of employees instead of causing techno-stress or disengagement. Indicatively, recent studies in organisational contexts report that digital leadership is able to enhance the employee empowerment and work engagement outputs that relate to the application of technology (Zhou et al., 2025). Though not all of these studies explicitly concentrate on responsible AI, they support the larger idea that leadership practices in situations of digital transformation are relevant in influencing employee-level performance and motivation- a fact that is even more deflective and consequential when the technology at issue is AI.

With the increased focus on digital leadership and responsible AI, there are still a number of gaps that lead to the current research topic. To start with, much of the responsible AI discourse is normative and governance-focused, which focuses on the principles and organizational structures in place of micro-level leadership behaviours that operationalise the responsible AI to the employees. Second, the ethical climate studies offer a very strong tool to comprehend the collective ethical perceptions, yet, they are also less commonly applied to the models of digital leadership in the context of the AI adoption. Third, the organizational-level performance-based discourses related to AI tend to emphasize the productivity and strategic advantages of the technology at the expense of exploring the social and ethical circumstances in which these advantages can be realized on a sustainable level. By merging these streams, a more comprehensive picture is possible: the digital leadership practices can impact an ethical climate, and the latter can affect the adoption of AI turning it into a responsible practice and increase the performance of employees in a stable, trusted, and ethically balanced way.

To this end, the current research paper will be devoted to Digital Leadership in the Responsible AI Adoption: A Connection between Leadership Practices and Ethical Climate and Employee Performance. The overall assumption is that responsible AI implementation is not just a technical implementation choice, but a process that depends on leadership and climate. Digital leaders who are technologically competent and act ethically by exhibiting ethical governance behaviors have the potential to develop an ethical climate that would encourage responsible use, trust, and accountability. Whether employees accept the AI-enabled work systems positively or negatively can then be influenced by that ethical climate, which will influence how much employees actually engage, how willing they are to learn, how much they follow the norms of responsible use-of-AI, and finally performance outcomes. This

research will help illuminate the conceptual path through which leadership practices can influence employee performance in AI-enabled working environments by basing responsible AI adoption in the well-established ethical climate theory and leadership literature, and still adhere to the current well-known conceptualizations of responsible AI including the OECD AI Principles and the NIST AI RMF.

Through this, the paper adds to the discussion that is still developing on how organizations can become accountable and successful in adopting AI at the same time. To the managers, it emphasizes that responsible AI is not a supplementary feature that technical departments or compliance departments can address; it is supported (or not supported) in the day-to-day operations by the choices of the leadership, ethical signals, and performance management frameworks. To researchers, it highlights the importance of combining ethical climate with digital leadership to help predict employee-level results more accurately in AI-based transformations, especially in service organizations where employee judgment, customer interaction, and data-intensive processes, ethical AI issues are particularly relevant.

Problem Statement

Organizations are hastening the implementation of artificial intelligence (AI) to enhance productivity, quality of decisions and service delivery but the pace of adoption has exceeded the level of governance and responsible-use practices in several workplaces. That is a management issue with very high stakes: AI systems have the potential to enhance efficiency, and at the same time cause ethical and operational risks including discriminatory results, violation of privacy, obscurity of decisions, and lack of accountability. Having understood these risks, popular frameworks (e.g. OECD AI Principles; NIST AI Risk Management Framework) have focused on trustworthiness, accountability, transparency, and risk management throughout the AI lifecycle (OECD, 2019; NIST, 2023).

Nevertheless, frameworks would not guarantee the responsible adoption of AI. Their success will be determined by the ability of the organizations to translate abstract principles into daily routine practices, decision rules and accountability routines. This is inherently a social and managerial translation: the employees need to know how AI is to be applied, at what point it will be challenged, how the ethics issue can be discussed, and how the performance will be judged in case AI is integrated into working processes. The key issue is that, the absence of a great leadership and supporting ethical climate, AI adoption can turn out to be successful, technically (implemented and used) but unsuccessful, ethically and human-wise (low trust, perceived unfairness, unsafe shortcuts, silence about harms), which adversely affects long-term employee performance.

Digital leadership is becoming a central contributor to successful digital transformation since leaders influence the strategic priorities, resource allocation, norms, and legitimize new working patterns. However, leadership in AI settings cannot just be about encouraging adoption but also about responsible adoption, that is, integrating ethics in governance, in training and in performance regimes. In particular, the NIST AI RMF, as an example, identifies governance practices that are aimed at ensuring that the use and assessment of AI systems in organizations consider the aspect of trustworthiness (NIST, 2023). Nevertheless, there are lots

of organizations that have difficulties in the regular application. The evidence in the industry also indicates the continued existence of a responsibility gap, in which AI accidents occur frequently and only a very small number of companies fulfill responsible AI requirements (Infosys, as reported in The Economic Times, 2025).

One of the major ways leaderships can influence responsible AI implementation is ethical climate - collective ideas of what is ethical behavior and how ethical concerns are managed within the organization. Ethical environment will determine how safe employees are to challenge the output of AI, report, follow the rules in stress and focus on fairness rather than immediate performance indicators. Ethical climate Questionnaire (ECQ) tradition has served as a solid foundation to conceptualizing and measuring the ethical climate as a level of influence on employee behavior at the workplace (Victor and Cullen, 1993).

Regardless of these theoretical foundations, research and practice continues to lack a comprehensive account of how digital leadership is converted to responsible AI implementation via ethical climate and how this chain eventually influences the performance of employees. Recent empirical studies start to give more attention to the relationship between AI adoption and employee outcomes (e.g. adaptive performance), which suggests that AI has the ability to influence performance-relevant capabilities and behaviors (Liu, 2026). Other studies place the focus on responsible AI as an ethical assimilation of AI into organizational operations, yet point out that the literature tends to focus on design-level endeavors, as opposed to organizational-wide dynamics of adoption that have an impact on employees (Ye, 2025). Due to this, organizations do not have much evidence-based advice on the most pressing leadership practices and climate conditions to implement to make sure that the adoption of AI can result in the enhancement of the performance of the employees without undermining ethical considerations.

In line with this, the research question of this paper is the following: Organizations do not have a developed, empirically based appreciation (based on available secondary evidence) of how digital leadership practices can create a supportive ethical environment to adopt AI responsibly and how these mechanisms influence employee performance outcomes in the AI-facilitated workplaces. This issue is pressing due to the fact that lack of responsible adoption may destroy trust, raise staff opposition, or cause performance and reputational expenses, even in the cases when AI tools are technologically superior.

Research Objectives

RO1: To analyse the effects of digital leadership practices on the ethical climate of an organization in the backdrop of an AI-enabled work system.

RO2: To assess the effectiveness of ethical climate in influencing the adoption of responsible AI (e.g., transparency, accountability, fairness, risk controls) in organizations.

RO3: To examine how responsible adoption of AI affects employee performance based on previous empirical studies and secondary data available.

RO4: To analyse whether ethical climate plays a mediating role between digital leadership and employee performance when it comes to responsible AI adoption.

Literature Review

1. AI-enabled workplace and digital leadership.

Digital leadership is a unique leadership skill needed to steer the organizations through technology-driven change proposed where leaders should combine strategic leadership, people management, and digital abilities to lead to results in the transformation process. One central concept throughout the literature is that digital leadership does not merely involve people using digital tools, but influencing and coordinating actions in those situations when the digital technology affects workflows, communication, and performance (Lopez-Figueroa et al., 2025). Digital transformation leadership studies also highlight that digital-era leadership entails sensemaking in relation to new technologies, creation of a common direction, elimination of barriers towards adoption and mobilization of resources and stakeholders to redesign processes and services (van Roekel, 2025).

The leadership task, in particular, is complicated in AI due to the changing of decision rights and accountability: employees can depend on the decisions of the algorithm, job boundaries can be redefined with the help of automation, and monitoring, which is performed with the help of AI, can promote the feeling of control. This compels the demand of more leaders able to strike a balance between innovation and governance-to do AI in a way that is transparent, fair and safeguarded, and not simply because of its short-term efficiency. The issue of leadership readiness is mentioned several times as one of the primary limitations of scaling AI: according to industrial research, most organizations pursue AI but fall short of high maturity, and leadership ability is one of the largest barriers to achieving AI scale value capturing (McKinsey, 2025).

In general, it can be stated that digital leadership is pertinent to responsible AI adoption in both senses: (a) it defines where and how AI is implemented (e.g., priorities, resourcing, change management), and (b) it determines the rules and norms of how AI is to be used, challenged, and regulated in everyday work (Lopez-Figueroa et al., 2025; van Roekel, 2025).

2. Stewardly AI implementation and management as an organizational ability

Responsible AI adoption can be defined as adopting and deploying AI in a manner proactive to address ethical, legal and social risks throughout the AI lifecycle. The key frameworks are oriented towards the following requirements: transparency, accountability, robustness, fairness, privacy, and human oversight. NIST AI Risk Management Framework (AI RMF) places governance and risk management as the primary practices to involve trustworthiness in the use of AI in organizations (NIST, 2023). Here, McKinsey report is referred to as being mature; NIST is older than intro, but still relevant.

Beyond principles, the research is expanding responsible AI as a governance (system) including structures (roles, oversight bodies), processes (risk assessment, monitoring, auditing), and relational practices (stakeholder engagement, transparency and communication) by which AI results in organizations are distributed. One of the most encountered reviews in Technological Forecasting and Social Change sums up the responsible AI governance into structural, relational, and procedural practices and highlights both antecedents and outcomes, noting that responsibility is practiced through organizational routine instead of statements of ethics alone (Papagiannidis et al., 2025).

This governance prism is important to the investigation of leadership in that the routines that bring responsible AI to existence, such as establishing an escalation channel to biased AI outcomes, establishing responsibility to model performance drift, specifying when people may contradict AI suggestions, and creating training and communication about workers who fall victim to AI-driven redesign, are frequently defined (or remain undefined) by leaders. In the space where such practices of governance are lax, there is a probability of recurrent AI failures, unequal decision-making criteria, or employees using AI in the shadows, which eventually negates trust and performance. Recent data also point to the fact that the adoption AI is increasing more rapidly than organizations can start quantifying impacts and aligning perceptions of leadership with the experience of the workforce, point to the fact that adoption itself is highly socio-technical and needs to be changed through an operating-model, rather than by deploying tools (Times of India report on Zinnov-ProHance results, 2025).

3. Ethical climate as social mechanism between leadership and responsible use

Ethical climate can also be well-known as an agreed-upon attitude towards the employees within an organization about what is considered to be ethical conduct and how ethical matters are approached. Ethical climate theory contends that climates influence employees in making their decisions by giving normative indicators of what is rewarded, tolerated, and expected; particularly in times of uncertainty. One of the most popular tools to measure the dimensions of ethical climate is the Ethical Climate Questionnaire (ECQ) created by Victor and Cullen, which has a high tradition in the organizational research (Victor and Cullen, 1993).

Ethical ambiguity is also typical in AI-driven workplaces, as employees can be uncertain about whether to trust an AI-generated recommendation conflicting with their professional judgment, whether to deal with sensitive data used to formulate models, whether to report potential bias, or whether to interpret performance requirements when AI is involved in task performance. Such situations put ethical climate in a practical situation of a decision guide. With a climate of emphasis on rules, fairness and caring, employees can be more inclined to adhere to responsible AI practices (e.g., documentation, escalation, human oversight). On the other hand, when the climate implicitly values the speed, metrics, or instrumental results, employees can also become accustomed to shortcuts (e.g., skipping the checks, disregarding red flags), which increase the ethical and operational risks.

Another most consistent antecedent of ethical climate is leadership since leaders transfer their priorities, led by example, and instill standards through performance management and resource allocation. Leaders in digital transformations are also involved in determining the norms that accrue to the use of technology (ex: use of AI as an empowering technology versus as a surveillance tool). This further supports the thesis that responsible-use norms will be influenced by ethical climate in digital leadership: the behaviors of leadership generate the climate that perpetuates or disparages responsible-use norms, which, in turn, will impact the way the employees will act on AI in practice (Victor and Cullen, 1993; Papagiannidis et al., 2025).

4. The result of employee performance with the adoption of AI: facilitating and restricting paths

The available studies on the use of AI in the workplace continue to reveal that the results of employees are not uniform and dependent. On the one hand, AI can enhance the intensity of workers as it can increase the accessibility to information, automatise regular work, and assist in decision-making-which may serve to improve task performance, adaptive performance, and innovation. Alternatively, AI can create more anxiety, perceived less autonomy, and more monitoring, which can be detrimental to involvement and discretionary effort.

Recent empirical studies show that the introduction of AI into organizations can facilitate motivation state of employees, including approach and avoidance motivation, by such mechanisms as general AI-supported autonomy and AI anxiety; such mechanisms have an impact of job crafting behaviors (Liu, 2025). These findings can be attributed to a socio-technical perspective: the effects of technology are not universally expressed but rather conditional upon the mode of its introduction, framing, governance, and experience among employees. In addition, systematic surveys of the effects AI has on workers note both positive (productivity enhancing, less work on certain tasks, etc.) and negative (job insecurity, deskilling anxiety, surveillance fear, fairness issues) effects, which underlines the idea that the effects of AI adoption on people are dependent on organizational practices and the situation (ResearchGate systematic review, 2025).

It is in this area that responsible AI usage and ethical climate are the primary focus of performance. When the responsibility-based governance and ethical climate lead to lowering fear, developing trust, and promoting learning and safe voice behavior, employees will be more eager to cooperate with AI, experiment, and adapt, which will enhance the performance. Conversely, without ethical protection and climate support when AI is implemented, employees might resist or resort to workarounds or disengagement which can threaten performance despite the technical capability of AI tools. There is also evidence of an expanding AI application in numerous jobs, as indicated in workforce and industry reporting, yet there is wide variation in adoption and the incorporation of AI into performance systems, which makes choices related to leadership on the question of how AI counts, in work and appraisal systems, increasingly important (AP News/Gallup, 2026; Business Insider, 2025).

5. The incorporation of the literature: a pathway model of responsible AI and performance

By combining the streams provided above a consistent path appears:

- The introduction and legitimization of AI are defined by the organizational context that is formed by the digital leadership practices (vision, change leadership, digital competence, governance orientation) (Lopez-Figueroa et al., 2025; van Roekel, 2025).
- These practices affect the ethical climate whereby they give norms and decision cues on how employees should treat ethical issues, air their concerns and manage performance demands with responsible actions (Victor and Cullen, 1993).

- Ethical climate alters (or hinders) the adoption of responsible AI, which bears an interpretation of governance practices that are built into daily practices (Papagiannidis et al., 2025).
- When combined, responsible AI practices and a favorable ethical environment determine the result of employee performance since it has an impact on trust, autonomy, anxiety, motivation, and the desire to interact constructively with AI during work processes (Liu, 2025).

This combined framing fills one of the main literature gaps: the necessity to bridging macro- level AI principles and governance models with micro- and meso-level workplace mechanisms, in particular, leadership behavior and ethical climate, that dictate how AI is implemented in practice and how performance effects manifest themselves over time. This in terms of secondary-data research would require a methodical synthesis of evidence in the body of leadership, ethical climate, and responsible AI governance research to determine convergent mechanisms, boundary conditions, and common inferences in employee performance in AI-enabled organizations.

Conceptual Framework

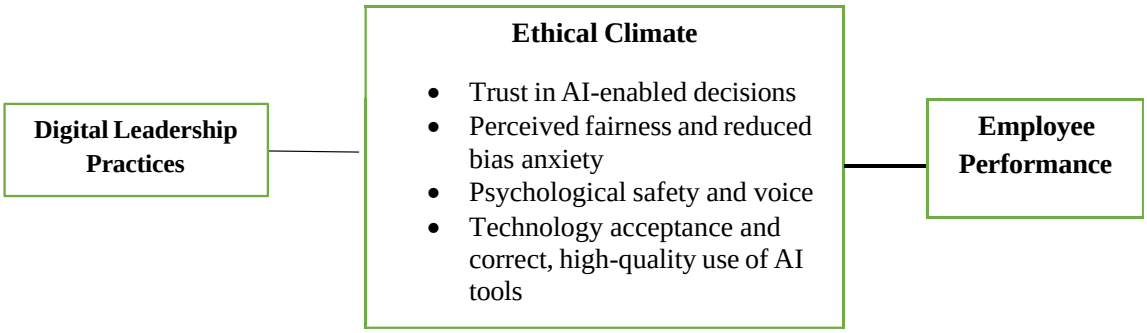

Fig 1: The Relationship between Leadership Practices, Ethical Climate, and Employee Performance. (Compiled by Researcher)

The framework proposed in this study theorizes the responsible adoption of AI as a socio- technical change outcome not just influenced by technological capability and formal governance institutions, but also leadership practices and shared ethical norms in the workplace. Responsible AI adoption, in this context, is understood as the degree in which a responsible organization incorporates fairness, transparency, accountability, privacy, robustness, and human supervision in the AI lifecycle and work practices of daily work (OECD, 2019; NIST, 2023). Digital leadership in this framing delivers the strategic and behavioral infrastructure to actualize these principles within the period of adoption- through the purpose communication, resource distribution, employee learning facilitation, control creation and accountability anticipation of the AI-aided decision making (Lopez-Figueroa et al., 2025; Papagiannidis et al., 2025).

The framework connects the responsible AI implementation with the worker performance in that the worker performance is viewed as the result of the capability

improvement (AI augmentation) and the worker motivation/engagement in new work conditions.

Methodology

Research design

The research design used in this study is a secondary-data research design where the integrative literature review method will be used to synthesize rigorous evidence on relationships between digital leadership, ethical climate, responsible adoption of AI, and employee performance. A review is appropriate since the subject of study is interdisciplinary i.e., it is comprised of leadership studies, information systems/digital transformation, business ethics, and HR/organizational behavior and will need the integration of conceptual, empirical, and review- based evidence into a consistent explanatory framework (Torraco, 2005). The review is performed in an organized and transparent way, which can be aimed at systematic and transparent literature selection process reporting (Page et al., 2021).

Sources and search strategy of data

Systematic searching is carried out through the key scholarly databases that are characterized by the high quality of peer research: Scopus, Web of Science (Core Collection), ProQuest (e.g., ABI/INFORM), ScienceDirect, ACM Digital Library (socio-technical and organizational AI), Google Scholar (selectively in order to get highly cited or seminal works as well as find results in citation chaining) etc.

Inclusion criteria

1. Published papers of reputable conference proceedings, high quality journal articles, and official reports of established organizations (e.g., OECD, NIST).
2. Research which covers at least one of the major connections in the proposed pathway:
   - digital leadership - ethical results/climate.
   - AI adoption/governance/responsible use - leadership.
   - ethics climate/culture - performance/outcomes of employees.
   - responsible AI/adoption of AI - employee results/performance.
3. Quantitative, qualitative, mixed method, theoretical, systematic review articles with empirical support of the proposed model in terms of conceptual or evidentiary support of the proposed model.
4. Publications in English.
5. Time window: 2014-2026 (to reflect relatively recent AI and digital leadership research), but permits older seminal work in the area of ethical climate and theory of foundational leadership.

Findings and Results

1. The role of digital leadership is always identified as a facilitator of the responsible use of AI, and it can only do so when it encompasses governance-oriented practices, not just an act of technology championing.

In the evidence base reviewed, digital leadership is consistently associated with effective technology adoption and outcomes in employees, but AI situations demand leaders to

do more than encourage use. The responsible AI frameworks are based on the idea of lifecycle governance, accountability, transparency, and risk controls, which means that the leaders should institutionalize the control over AI and clarify the decision rights, allocate resources to monitoring and training (OECD, 2019; NIST, 2023). Overall, the papers propose that proactive digital leaders, who formulate policies on AI, guarantee cross-functional engagement (e.g., HR- IT-risk), and explain the purpose and mode of AI implementation can more easily promote responsible adoption and mitigate resistance to change among employees (Papagiannidis et al., 2025).

2. Ethical climate creates as an effective translation system to translate leadership intent into daily responsible AI action.

Ethical climate theory describes that employees are guided by their common belief concerning what is right and how they are going to handle ethical matters in order to make decisions under vague conditions (Victor & Cullen, 1993). Working with AI is characterized by ambiguity as a result of algorithmic obscurity and blurry accountability limits; consequently, leadership effects are most effective when they influence an ethical atmosphere of normalization of transparency, justice, and voice (Victor and Cullen, 1993). In systems where the behavior of leadership sends the message that ethical considerations are encouraged and safeguarded, the responsible routines (e.g., reporting bias, escalating unusual outcomes, documenting overrides, data stewardship) will be more likely integrated on a regular basis (Papagiannidis et al., 2025).

3. The best description of responsible AI adoption is as an organizational capacity comprising of governance structures, procedures and relational practices as opposed to a single policy or tool selection.

The literature narrows down to the concept that the responsible AI is implemented through the operational routines: risk analysis, auditing/monitoring, documentation, role definition, and accountability provisions throughout the AI lifecycle (NIST, 2023; Papagiannidis et al., 2025). According to secondary evidence, the situation at organizations that have AI but lack mature responsibility practices suggests that the adoption of AI is uneven in units and relies on local leaders and climate. This reinforces the point that leadership and climate are the key to expanding the responsibility beyond pilot projects.

4. The results of the performance of the employees in the implementation of AI are conditional responsible governance and ethical climate can transform AI utilization into long-term performance benefits.

The use of AI to enhance the work performance through enhancing decision-making and lessening routine work depends on the performance of the employee, as the results vary depending on the trust, anxiety, perceived fairness, and autonomy. Artificially produced evidence suggests that AI implementation has performance-related states (e.g., motivation, job crafting, engagement), and they are influenced by the manner AI is brought into the picture and regulated (Liu, 2025). Ethical climate-supported responsible AI practices can be used to reduce the fear and promote more trust in AI, enhancing the learning and effective human-AI

cooperation, which is more likely to produce the long-term improvement in performance (OECD, 2019; NIST, 2023).

5. The integrated route is reasonable, and is supported indirectly between streams, but the entire chain has been tested only in a few studies.

The supporting evidence of individual connections (leadership - culture/climate; governance - trust; AI adoption - employee outcomes) is high. Nevertheless, fewer studies concurrently model the entire pathway digital leadership-ethical climate-reliable AI adoption-employee performance in a single empirical study. It means that there is a significant prospect of conducting research later to test the order of sequential mechanisms, boundary conditions, and causal order.

Limitations

1. Limitations of secondary-data and inferences

The paper is also based on synthesis and theoretical integration since the primary field data is not provided; it is based on secondary sources instead. This restricts the argument of making strong causal assertions regarding the pathway and its strength in different contexts (Torraco, 2005; Page et al., 2021).

2. Measurement heterogeneity and construct heterogeneity

Studies operationalize digital leadership, responsible AI, and ethical climate differently as well as employee performance. Ethical climate can be assessed using ECQ variants, whereas responsible AI can be described using the terms trustworthy AI, AI governance, or responsible innovation, which restricts comparative studies (Victor and Cullen, 1993; NIST, 2023).

3. Database coverage and publication bias

Peer-reviewed literature can be biased towards the representation of successful cases or popular frameworks, and the negative evidence, failures and unpublished organizational experiences. Also, the sources are limited to the publications in the English language, which can eliminate the reflective evidence of the region.

4. Rapidly evolving AI context

The process of AI governance and organizational practices are evolving at a rapid pace. Even though the stability of the conclusions is limited due to new regulations and practices which can change after the review window, anchor frameworks (OECD, NIST) enable the long-term generalizability (OECD, 2019; NIST, 2023).

Future Research Directions

1. Test the entire sequential model (multi-mediator pathway) empirically

To directly measure digital leadership - ethical climate - responsible AI adoption - employee performance in future research, structural equation modeling (SEM) or multi-level models (team/organizational climate) should be used. This would explain the strength of mediation and the ethical climate and responsible adoption as paralleled or serial mediators (Victor and Cullen, 1993; Papagiannidis et al., 2025).

2. Moderators (contextual) industry regulation, job type and digital literacy

It is probable that the pathway will depend upon the intensity of regulation (e.g. finance/health), customer-contact jobs vs. back-office jobs, and digital literacy of workforce.

Moderators that should be tested can justify on what occasions responsible AI governance turns out to be performance-enhancing and under what circumstances it can become perceived as burdensome (OECD, 2019; NIST, 2023).

3. Research Longitudinal and quasi-experimental study

Longitudinal outcomes would be able to monitor the changes in ethical climate and performance level of employees during a pre-implementation period and post-implementation period with AI. Causal inference can be strengthened in leadership and governance interventions through quasi experimental designs (e.g., staggered rollout across units).

4. Non-performative outcomes- well-being, fairness impressions and trust

The next research should look into the possibility of future studies either confirming or refuting the premise that performance benefits of AI implementation are accompanied by unaccounted costs (stress, autonomy loss, fairness issues). Combining wellbeing and justice outcomes will facilitate holier evaluations of responsible AI adoption.

Conclusion

The literature review is based on secondary-data synthesis to combine information about digital leadership, ethical climate, adoption of responsible AI implementation and employee performance to make the argument of why responsible AI is ultimately a leadership-and- climate dependent organization capability. The evidence suggests that AI governance frameworks are important guidance, yet organizations can only become responsible AI appliers when leaders translate the principles into the operational routine and create an enabling ethical climate (OECD, 2019; NIST, 2023; Victor and Cullen, 1993). Ethical climate turns out to be the focal process, which contributes to the diversity of how employees understand ambiguous AI scenarios, such as whether they can feel safe to challenge AI results, disclose bias issues, adhere to governance regulations, and be fair in performance contexts.

The synthesis also indicates that the outcomes of performance of the employees in the wake of AI adoption is not automatic. AI can be used to support performance in terms of augmentation and efficiency, but it becomes more likely to be maintained as responsible AI use has been adopted to mitigate lacking trusts, explain accountability, and facilitate learning and engagement (Liu, 2025; Papagiannidis et al., 2025). Combining these streams into a systematic route- digital leadership - ethical climate - responsible AI adoption - employee performance- the paper is able to offer a consistent rationale as to why certain organizations achieve both ethical and performance gains at the same time as others encounter AI-related opposition, dangers, or reputational loss.

Altogether, the review highlights that responsible AI is not merely an issue that can be addressed by technical means and solved through algorithms, it is a governance and human-system issue defined by the leadership practices and the ethical standards of the working environment. The suggested pathway needs to be empirically validated in the future by multi-level and longitudinal studies and created more specific AI leadership practices measures to inform scholarship and managerial action (OECD, 2019; NIST, 2023; Victor and Cullen, 1993).

References

[1] Al Halbusi, H., Williams, K. A., Mansoor, H. O., Hassan, M. S., & Hamid, F. A. (2021). Managerial ethical leadership, ethical climate and employee ethical behavior: Does moral attentiveness matter? International Journal of Ethics and Systems, 37(4), 512–531.

[2] Berente, N., Gu, B., Recker, J., & Santhanam, R. (2021). Managing artificial intelligence.

[3] Binns, R. (2018). Algorithmic accountability and public reason. Philosophy & Technology, 31(4), 543–556.

[4] Burrell, J. (2016). How the machine "thinks": Understanding opacity in machine learning algorithms. Big Data & Society, 3(1), 1–12.

[5] Cullen, J. B., Victor, B., & Bronson, J. W. (1993). The Ethical Climate Questionnaire: An assessment of its development and validity. Psychological Reports, 73(2), 667–674.

[6] Dwivedi, Y. K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., … Williams,

[7] European Commission, High-Level Expert Group on Artificial Intelligence. (2019). Ethics guidelines for trustworthy AI. European Commission.

[8] Hickman, E. (2021). Trustworthy AI and corporate governance: The EU's ethics guidelines for trustworthy AI. Asian Business & Management, 20, 1–30. Human Resource Development Review, 4(3), 356–367.

[9] Kellogg, K. C., Valentine, M. A., & Christin, A. (2020). Algorithms at work: The new contested terrain of control. Academy of Management Annals, 14(1), 366–410.

[10] Liu, Q. (2025). How does organizational AI adoption affect employees' job crafting? The roles of AI-supported autonomy, AI anxiety, and approach–avoidance motivation. Frontiers in Psychology.

[11] Liu, Q. (2025). How does organizational AI adoption affect employees' job crafting? The roles of AI-supported autonomy, AI anxiety, and approach–avoidance motivation. Frontiers in Psychology.

[12] López-Figueroa, J. C., Ochoa-Jiménez, S., Palafox-Soto, M. O., & Hernandez Munoz, D. M. D. (2021). Artificial intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. International Journal of Information Management, 57, 101994.

[13] Moher, D. (2021). The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. BMJ, 372, n71.

[14] Maesschalck, J. (2005). The use of the Ethical Climate Questionnaire in the public sector: An empirical assessment (Working paper). KU Leuven.

[15] Meske, C., & Bunde, E. (2022). Explainable artificial intelligence: Objectives, stakeholders, and future research opportunities. European Journal of Information Systems, 31(4), 1–21. MIS Quarterly, 45(3), 1433–1450.

[16] National Institute of Standards and Technology. (2023). Artificial Intelligence Risk Management Framework (AI RMF 1.0).

[17] National Institute of Standards and Technology. (2023). Artificial intelligence risk management framework (AI RMF 1.0) (NIST AI 100-1). U.S. Department of Commerce.

[18] OECD. (2019). Recommendation of the Council on Artificial Intelligence (OECD/LEGAL/0449). Organisation for Economic Co-operation and Development.

[19] OECD. (2019). OECD AI principles. Organisation for Economic Co-operation and Development.

[20] Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Papagiannidis, E., Mikalef, P., & Conboy, K. (2025). Responsible artificial intelligence governance: A review and research framework. The Journal of Strategic Information Systems.

[21] Rai, A. (2020). Explainable AI: From black box to glass box. Journal of the Academy of Marketing Science, 48(1), 137–141. Research in Corporate Social Performance and Policy, 9, 51–71.

[22] S. (2025). Digital leadership: A systematic literature review. Administrative Sciences, 15(4), Article 129.

[23] Shrestha, Y. R., Ben-Menahem, S. M., & von Krogh, G. (2019). Organizational decision- making structures in the age of artificial intelligence. California Management Review, 61(4), 66–83.

[24] Shrestha, Y. R., Ben-Menahem, S. M., & von Krogh, G. (2021). Augmenting organizational decision-making with deep learning algorithms: Principles, promises, and challenges. Journal of Business Research, 123, 588–603.

[25] Smuha, N. A. (2019). The EU approach to ethics guidelines for trustworthy artificial intelligence. Computer Law Review International, 20(4), 97–106.

[26] Torraco, R. J. (2005). Writing integrative literature reviews: Guidelines and examples.

[27] Tranfield, D., Denyer, D., & Smart, P. (2003). Towards a methodology for developing evidence-informed management knowledge by means of systematic review. British Journal of Management, 14(3), 207–222.

[28] van Roekel, H. (2025). Digital transformation leadership: A public value-centered measurement scale. Government Information Quarterly.

[29] Victor, B., & Cullen, J. B. (1987). A theory and measure of ethical climates in organizations.

[30] Victor, B., & Cullen, J. B. (1993). The Ethical Climate Questionnaire: An assessment of its development and validity. Psychological Reports, 73(2), 667–674.

[31] Wagner, B. (2020). Accountability by design in technology research. Computer Law & Security Review, 37, 105401.

[32] Williams, L. J., & Anderson, S. E. (1991). Job satisfaction and organizational commitment as predictors of organizational citizenship and in-role behaviors. Journal of Management, 17(3), 601–617.