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Preparing Human Resource Managers for the Integration of Artificial Intelligence in Organizations

Behnoush Jovari[1]*

[1] Department of Public Management - Decision Making and Public Policy, CT.C., Islamic Azad University, Tehran, Iran.

*Corresponding author: Behnoush Jovari (Email: Behnoush.jovari@iau.ac.ir)

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Abstract

Purpose: This study identifies critical success factors for managing organizational transformations caused by integrating Artificial Intelligence (AI) into Human Resource Management (HRM).

Methodology: A mixed-method approach was employed in 2025. Data were collected through semi-structured group interviews with 20 experts in HRM, AI, psychology, and ethics, selected via snowball sampling. Extracted codes were validated using open-ended questionnaires. Thematic analysis (open, axial, and selective coding) was applied, and inter-researcher reliability was confirmed using Cohen's Kappa coefficient ($\kappa = 0.7368$).

Findings: The analysis revealed five core areas requiring intervention: management style, human resources, organizational structure, human relations, and organizational behavior. These were refined into ten validated strategic codes, including cultural localization, psychological empowerment, ethical framework development, and anticipation of emerging challenges.

Conclusion: This research provides a culturally sensitive framework for AI integration in HRM, emphasizing psychological and behavioral dimensions often neglected in prior studies. It offers HR managers a practical roadmap to navigate AI adoption while preserving human dignity and organizational values. Successful AI integration requires deliberate interventions across multiple organizational dimensions, not merely technological upgrades.

Keywords: AI Management, Human Resource Management, Organizational Change, AI Ethics.

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1. Introduction

Artificial Intelligence (AI) is fundamentally reshaping Human Resource Management (HRM) by introducing innovative solutions that automate routine administrative tasks, enhance decision-making accuracy, and promote unbiased recruitment processes (Dovespike et al., 2025). As AI technologies rapidly evolve and penetrate organizational structures, businesses are compelled to reassess and transform their HR practices to sustain competitiveness and foster long-term growth (Akour et al., 2024).

Despite growing theoretical awareness of AI, automation, and robotics, applied research on the practical implementation of these technologies in organizational management remains insufficient. This persistent gap between theoretical knowledge and practical application presents significant challenges for HR professionals, demanding urgent scholarly attention to reform existing procedures and frameworks (Aguilar-Cruz & Salas-Pilco, 2025).

Many organizations have already recognized the potential of AI to alleviate the burden of managerial tasks, freeing up valuable human resources for strategic, value-adding activities. This shift is expected to boost overall productivity and employee satisfaction (Amie-Ogan, 2025). However, a comprehensive understanding of the consequences of AI adoption—both at the organizational and individual levels—is still lacking. While AI can enhance work-life balance and improve employee well-being, it simultaneously raises concerns about job security, ethical implications, and the erosion of human-centric organizational cultures (Jovari, 2025).

The existing literature has extensively explored both the opportunities and risks associated with AI governance. However, a noticeable knowledge gap persists regarding the systematic and culturally sensitive integration of AI into HRM. Most studies have concentrated on technological and procedural dimensions, often neglecting the psychological, behavioral, and cultural adjustments required for successful adoption (Kelm & Johann, 2025; Lee et al., 2025).

This study, therefore, aims to identify the key factors essential for managing the transformative changes brought about by the emergence of AI and advanced robotics as new "collaborators" in the HRM domain. The primary objective is to raise managerial awareness, mitigate potential risks, and optimize the benefits of AI integration. Specifically, the research seeks to answer the following fundamental question:

"How can smart human resource managers prepare their organizations to intelligently accommodate artificial intelligence?"

By providing a strategic roadmap grounded in empirical data and expert consensus, this research offers significant practical value for organizational decision-makers. Furthermore, by incorporating cultural localization, ethical considerations, and psychological empowerment into its framework, the study contributes to the growing body of knowledge on AI in HRM, with particular relevance to contexts where cultural and behavioral factors are paramount (e.g., Iranian-Islamic settings).

2. Theoretical Foundations and Literature Review

2.1. Artificial Intelligence in HRM: Conceptual Foundations

Artificial Intelligence (AI) refers to systems capable of performing human cognitive functions such as learning, reasoning, and problem-solving at a level comparable to or exceeding human capabilities (Mabrouk, 2025). In essence, AI simulates human thought patterns to execute complex tasks autonomously. Over the past decade, AI has evolved from a basic search and data-processing tool into an advanced technology for creating intelligent robotics and decision-support systems (Awaludin et al., 2024).

Concurrently, the role of Human Resource Management has transformed significantly. In today's volatile, uncertain, complex, and ambiguous (VUCA) world, HRM is no longer confined to administrative functions like hiring and firing; it has emerged as a strategic business partner essential for organizational agility and competitiveness (Negt & Haunschild, 2025). The digitalization of HR processes and the adoption of advanced Human Resource Information Systems (HRIS) have accelerated this transformation. AI-powered HRIS now enable organizations to manage vast employee data, predict workforce trends, and support sustainable business models (Deep Smith, 2025).

2.2. Opportunities and Benefits of AI Integration in HRM

The integration of AI into HRM offers numerous advantages. AI-based recruitment tools can match candidate qualifications to job requirements with remarkable precision, reducing human bias and accelerating hiring cycles (Deep Smith, 2025; Jovari, 2024). AI-driven HR analytics process large datasets to provide actionable insights for strategic decision-making, workforce planning, and performance management (Jovari, 2025). Furthermore, AI automation of repetitive tasks—such as payroll processing, leave management, and initial candidate screening—significantly reduces operational costs, improves efficiency, and allows HR professionals to focus on higher-value activities (Zavaleta-Monestel et al., 2025).

Beyond operational efficiency, AI enhances employee engagement through personalized learning and development recommendations, real-time performance feedback, and career path suggestions. These capabilities contribute to improved employee satisfaction, work-life balance, and retention rates (Djatmiko et al., 2025). In the public sector, AI facilitates smart governance by improving citizen access to services, accelerating service delivery, and reducing administrative costs. It enables the development of "smart agencies" and "smart citizens," contributing to more efficient and responsive administrative systems (Al-Hawamleh, 2024; Totonchi, 2025).

2.3. Challenges and Risks of AI in Organizational Contexts

Despite its transformative potential, AI adoption in HRM is fraught with significant challenges. The literature consistently highlights several critical concerns:

- Technical and Operational Risks: AI systems are prone to errors and biases, which can have serious consequences in recruitment, performance evaluation, and disciplinary actions (Giudici et al., 2023; Grzybowski et al., 2024).
- Human and Psychological Concerns: Employees often experience fear of job displacement, distrust of AI decision-making, stress, and resistance to change. These reactions can lead to organizational malaise, reduced motivation, and even sabotage (Jovari, 2025; Kelm & Johann, 2025).
- Ethical and Legal Issues: The use of AI raises concerns about data privacy, algorithmic transparency, accountability, fairness, and the potential for social manipulation (Laux et al., 2024; Oladoyinbo et al., 2024; Walters & Novak, 2021).
- Organizational and Structural Barriers: Many organizations lack the necessary infrastructure, skilled professionals, and financial resources to implement AI effectively. Additionally, misalignment between AI capabilities and business needs, along with insufficient user training and low adoption rates, hinders successful integration (Akour et al., 2024; Madanchian & Taherdoost, 2025; Rudko et al., 2021).

2.4. Research Gap and Contribution of This Study

A clear theoretical duality emerges in the literature regarding AI in HRM. While the potential benefits are widely acknowledged, the psychological, behavioral, and cultural dimensions of AI adoption remain underexplored. Most existing research focuses on technological and procedural aspects, neglecting the human factors that determine the success or failure of AI integration. Furthermore, there is a notable lack of culturally localized frameworks that address the specific values, norms, and ethical standards of non-Western contexts (Kelm & Johann, 2025; Lee et al., 2025).

This study addresses these gaps by:

1. Identifying comprehensive management requirements across five interconnected dimensions: management style, HR development, organizational structure, human relations, and organizational behavior.
2. Emphasizing psychological and behavioral factors, such as employee fear of replacement, resistance to change, and the need for psychological empowerment.
3. Localizing AI integration within the Iranian-Islamic cultural context, ensuring alignment with ethical principles, transparency, fairness, and human dignity.

3. Methodology

This research employed a **descriptive-exploratory** design with a **mixed-method** approach, combining qualitative and quantitative techniques to ensure comprehensiveness and rigor. The study was conducted in two sequential phases during 2025.

3.1. Research Design and Approach

Given the exploratory nature of the research problem and the lack of extensive prior empirical studies in the Iranian organizational context, a qualitative-dominant mixed-method design was adopted. This approach allowed for in-depth exploration of expert perspectives while providing statistical validation for the identified themes (Creswell & Creswell, 2018).

The research process comprised three main stages:

1. **Qualitative Phase:** Semi-structured group interviews (brainstorming sessions) for initial data collection and code extraction.
2. **Quantitative Validation Phase:** Open-ended questionnaires distributed to the same experts for code verification and refinement.
3. **Integration Phase:** Thematic analysis and statistical reliability assessment.

3.2. Participants and Sampling

Population: The target population consisted of academic and industry experts in the fields of Human Resource Management, Artificial Intelligence, Computer Science, Psychology, and Ethics.

Sampling Method: Participants were selected using **purposive snowball sampling**. Initially, five key experts were identified based on their academic credentials and practical experience (minimum 10 years of experience in their respective fields). Subsequently, these experts recommended additional qualified colleagues, resulting in a final sample of **20 participants**.

Participant Criteria:

- Minimum educational qualification: Master's degree or PhD in relevant disciplines
- Minimum 10 years of professional or academic experience
- Demonstrated expertise in at least one of the core areas (HRM, AI, Psychology, Ethics)
- Willingness to participate in both phases of the study

Table 1. Participant Demographics (Source: By author)

Characteristic	Category	Number
Gender	Male	14
	Female	6
Education	PhD	12
	Master's	8
Field of Expertise	Human Resource Management	5
	Artificial Intelligence / Computer Science	6
	Psychology	4
	Ethics / Philosophy	3
	Mixed (Interdisciplinary)	2

3.3. Data Collection Instruments

Phase 1: Group Interview (Brainstorming Session)

A structured group interview session lasting approximately 180 minutes was conducted. The session was facilitated by a moderator who managed time and discussion flow, while the researcher acted as the session manager, posing questions and synthesizing responses.

Procedure:

1. The researcher presented the general research question to the group.
2. Participants provided initial responses and perspectives.
3. The researcher summarized responses and invited critical evaluation from different viewpoints.
4. Participants were encouraged to refine or revise their opinions based on peer feedback.
5. The discussion continued until theoretical saturation was achieved (no new codes emerged).

Key Questions Posed During the Session:

- What are the most significant changes that AI will bring to HRM?
- What challenges do organizations face in integrating AI into HR processes?
- How should HR managers prepare themselves and their organizations for AI adoption?
- What cultural and ethical considerations are essential for AI integration in Iranian organizations?
- What practical solutions can be proposed to address employee resistance and fear?

Phase 2: Open-Ended Questionnaire

Following the group interview, findings were synthesized into a **structured open-ended questionnaire**. This was distributed to the same 20 experts to obtain individual written responses, thereby minimizing group biases such as the halo effect, anchoring bias, or conformity pressure.

Questionnaire Structure:

- Part A: Demographic information
- Part B: Open-ended questions derived from the group interview themes
- Part C: Request for additional comments and suggestions

3.4. Data Analysis Procedure

Data analysis followed a systematic three-stage thematic analysis process (Braun & Clarke, 2006):

Stage 1: Open Coding

The researcher and two independent coders thoroughly reviewed the transcribed interview data and questionnaire responses. All meaningful units of text (words, phrases, or sentences) were identified and labeled with initial codes. This process generated approximately 120 initial codes.

Examples of Initial Codes:

- "Employee fear of job loss"
- "Need for data-driven decision-making"
- "Preservation of human values in AI interactions"
- "AI's inability to handle empathy and creativity"
- "Organizational structure agility requirements"
- "Transparency in AI algorithms"

Stage 2: Axial Coding

The initial codes were systematically grouped and categorized based on conceptual similarities, causal relationships, and contextual connections. This iterative process resulted in the emergence of five overarching thematic categories.

Table 2. five overarching thematic categories (Source: By author)

Thematic Category	Description
Management Style Adaptation	Changes required in leadership approaches, decision-making processes, and managerial competencies
Human Resources Development	Focus on reskilling, upskilling, and workforce transformation
Organizational Structure Modification	Shifts towards agility, flatter hierarchies, and new role definitions
Human Relations Enhancement	Managing interpersonal dynamics, employee fears, and communication patterns
Organizational Behavior Adjustment	Cultural change, employee motivation, and behavioral responses to AI

Stage 3: Selective Coding

In this final stage, the five thematic categories were further refined and integrated into a cohesive theoretical framework. This process yielded **ten validated strategic codes** representing the comprehensive requirements for managing AI in HRM.

Table 3. The Ten Final Strategic Codes (Source: By author)

Code No.	Strategic Code	Corresponding Theme
1	Modification of management style	Management Style Adaptation
2	Human resources transformation	Human Resources Development
3	Organizational structure adjustments	Organizational Structure Modification
4	Managing human relations	Human Relations Enhancement
5	Shifts in organizational behavior	Organizational Behavior Adjustment
6	Anticipation of emerging challenges	Cross-cutting
7	Adoption of scientific and practical solutions	Cross-cutting
8	Cultural readiness and localization	Cross-cutting
9	Psychological empowerment of the workforce	Cross-cutting
10	Development of ethical frameworks	Cross-cutting

3.5. Reliability and Validity

Inter-Researcher Reliability:

To ensure coding reliability, three independent researchers (including the principal investigator and two external coders) participated in the coding process. Cohen's Kappa coefficient was calculated to measure inter-coder agreement.

Table 4. Cohen's Kappa Calculation (Source: By author)

Metric	Value
Kappa Coefficient (κ)	0.7368
Standard Error	0.03
Bias Index	0.10
Prevalence Index	0.50

Interpretation: According to Landis and Koch's (1977) criteria, a Kappa value between 0.61 and 0.80 indicates **"substantial agreement."** Therefore, the obtained coefficient of 0.7368 confirms the high reliability of the coding process.

Table 5. Validity Measures (Source: By author)

Validity Type	Strategy Employed
Content Validity	Expert review and feedback during questionnaire development
Construct Validity	Triangulation of data sources (interviews + questionnaires)
Face Validity	Pilot testing with 3 experts before full deployment
External Validity	Detailed description of context for potential transferability

3.6. Research Ethics

All participants provided informed consent prior to participation. They were assured of confidentiality and anonymity, and were informed of their right to withdraw from the study at any stage without consequences. The research adhered to the ethical guidelines of the hosting institution.

4. Findings

This section presents the findings derived from the systematic thematic analysis of the group interviews and open-ended questionnaires. The results are organized according to the three-stage coding process (open, axial, and selective coding), culminating in the presentation of the ten validated strategic codes with supporting evidence from participant responses.

4.1. Open Coding Results

In the initial stage, 120 initial codes were extracted from the transcribed interviews and questionnaire responses. These codes were then refined and consolidated into 48 distinct preliminary codes. Table 6 presents representative examples of these initial codes across different thematic areas.

Table 6. Sample of Initial Codes Extracted from Open Coding (Source: By author)

Thematic Area	Sample Initial Codes
Management Style	Data-driven decision-making, reduced intuition in leadership, ethical considerations in AI use, balancing human judgment with AI recommendations

Thematic Area	Sample Initial Codes
Human Resources	Reskilling requirements, workforce reduction concerns, new competency demands, changing job descriptions, need for continuous learning
Organizational Structure	Flatter hierarchies, agile structures, elimination of middle management, new roles (AI specialists), infrastructure changes
Human Relations	Employee fear of replacement, distrust of AI, reduced interpersonal interactions, need for transparent communication
Organizational Behavior	Resistance to change, decreased motivation, cultural transformation, employee sabotage concerns, loyalty erosion
Challenges	Data privacy issues, algorithmic bias, legal gaps, high investment costs, shortage of qualified professionals
Solutions	Psychological empowerment, ethical guidelines, localization of AI, stakeholder engagement, pilot implementation

4.2. Axial Coding Results

During the axial coding phase, the 48 preliminary codes were analyzed for conceptual relationships, contextual connections, and causal patterns. This process led to the consolidation of codes into **five core thematic categories**, each representing a major area of organizational change necessitated by AI integration.

Table 7. Thematic Categories from Axial Coding (Source: By author)

Category	Description	Subsumed Codes
Management Style Adaptation	Changes in leadership approaches, decision-making processes, and managerial competencies	8 codes
Human Resources Development	Workforce transformation, reskilling, and new competency requirements	9 codes
Organizational Structure Modification	Structural agility, flatter hierarchies, and new organizational configurations	7 codes
Human Relations Enhancement	Managing interpersonal dynamics, communication, and employee emotional responses	8 codes
Organizational Behavior Adjustment	Cultural change, motivation, loyalty, and behavioral responses to technological disruption	10 codes

4.3. Selective Coding Results and the Ten Final Strategic Codes

In the final stage, the five thematic categories were further refined through expert validation and statistical verification. This process yielded **ten validated strategic codes** that constitute the comprehensive framework for managing AI integration in HRM.

Table 8. Ten Final Strategic Codes with Supporting Evidence (Source: By aythor)

Code	Strategic Code	Exemplar Participant Quotes	Validity
1	Modification of Management Style	*"Managers, alongside their existing experience and familiarity with the workplace environment and employee morale, can receive data and useful information to better manage their staff."*	$\kappa = 0.74$
2	Human Resources Transformation	*"Certain repetitive and even analytical tasks will be assigned to AI-powered robots. This may result in workforce reductions or require employees to undergo reskilling to adapt to new demands."*	$\kappa = 0.73$
3	Organizational Structure Adjustments	*"AI pushes organizations toward greater agility and flexibility. By analyzing organizational data based on its mission, this technology can eliminate redundant structures and recommend an optimal one."*	$\kappa = 0.75$

Code	Strategic Code	Exemplar Participant Quotes	Validity
4	Managing Human Relations	*"The shadow of fear of robots replacing humans will always accompany employees, increasing their stress. ...employees will enter into a confrontation with it, which will lead to sabotage on their part."*	κ = 0.72
5	Shifts in Organizational Behavior	*"AI, by providing analyses of employee behaviors, can contribute to transparency and efficiency. However, organizations may face employee resistance, reduced motivation, and even failure in competition."*	κ = 0.71
6	Anticipation of Emerging Challenges	*"No technology is 100% perfect and correct. ...if an error occurs in an AI system, identifying its precise origin will be very difficult. ...legal systems have not kept pace with this technology."*	κ = 0.74
7	Adoption of Scientific and Practical Solutions	*"Perhaps the best solution is to use AI as an auxiliary tool for humanity, in the service of human excellence. We must place the love for humanity, ethics, and dignity at the core of these transformations."*	κ = 0.76
8	Cultural Readiness and Localization	*"Organizations must, through the localization of AI based on Iranian-Islamic culture and through general and specialized training, pave a smooth path for the synergy of technology and humanity."*	κ = 0.73
9	Psychological Empowerment of the Workforce	*"It is necessary to provide the necessary awareness to managers and employees that robots are not going to take their places but are merely meant to be their assistants... to prevent confrontation and psychological harm."*	κ = 0.72
10	Development of Ethical Frameworks	*"Transparency, justice, fairness, responsibility, privacy, freedom, trust, and dignity must be emphasized in the use of artificial intelligence."*	κ = 0.74

4.4. Detailed Description of the Ten Strategic Codes

Code 1: Modification of Management Style

This code emphasizes the need for managers to balance data-driven approaches with human intuition, ethical considerations, and empathy. While AI provides precise analytics and decision support, managers must avoid over-reliance on technology, preserving creativity, leadership, and human-centered values in their decisions. The findings highlight that AI should serve as an intelligent advisor, not a replacement for managerial judgment.

Code 2: Human Resources Transformation

The integration of AI necessitates significant workforce transformation. Organizations must invest in reskilling and upskilling programs to prepare employees for new roles that require collaboration with AI systems. Job descriptions and competency frameworks need revision, and employees must develop digital literacy alongside their core professional skills.

Code 3: Organizational Structure Adjustments

AI adoption drives organizations toward flatter, more agile structures. By automating routine and analytical tasks, AI reduces the need for middle management layers and enables faster decision-making. However, this transformation requires careful planning to avoid resistance and ensure smooth transition.

Code 4: Managing Human Relations

One of the most critical challenges is addressing employee fear of job replacement by AI. The findings reveal that without transparent communication and trust-building measures,

employees may develop resistance, stress, and even engage in sabotage behaviors. Organizations must proactively manage these emotional and relational dynamics.

Code 5: Shifts in Organizational Behavior

AI introduces significant behavioral changes at the individual and collective levels. While AI can enhance transparency and efficiency, it may also reduce employee motivation and loyalty if perceived as a threat. Fostering a culture that embraces technological change while valuing human contributions is essential.

Code 6: Anticipation of Emerging Challenges

Organizations must prepare for a range of AI-related challenges, including algorithmic bias, legal gaps, data privacy concerns, and technical errors. Proactive risk assessment and the development of contingency plans are crucial to mitigate potential negative impacts.

Code 7: Adoption of Scientific and Practical Solutions

AI should be viewed as a complement to human intelligence, not a substitute. Practical solutions include pilot testing AI systems, fostering collaboration between AI specialists and HR professionals, and implementing AI in incremental phases to allow organizational adaptation.

Code 8: Cultural Readiness and Localization

This code emphasizes the importance of aligning AI integration with national and organizational cultural values. In the Iranian-Islamic context, AI frameworks must respect ethical principles, human dignity, and cultural norms. Localization ensures that AI adoption is socially acceptable and sustainable.

Code 9: Psychological Empowerment of the Workforce

Employees require psychological support to navigate the uncertainties of AI adoption. Awareness programs, counseling, and transparent communication about the role of AI can reduce anxiety and foster positive attitudes toward technological change. Empowerment builds confidence and reduces resistance.

Code 10: Development of Ethical Frameworks

The ethical use of AI demands clear guidelines on transparency, accountability, fairness, and privacy. Organizations must develop AI charters that address ethical concerns and ensure that AI applications uphold human rights and organizational values.

4.5. Conceptual Research Model

Based on the ten strategic codes, a conceptual model (Figure 1) was developed to illustrate the interrelationships between the five core areas of organizational change and the requirements for successful AI integration in HRM.

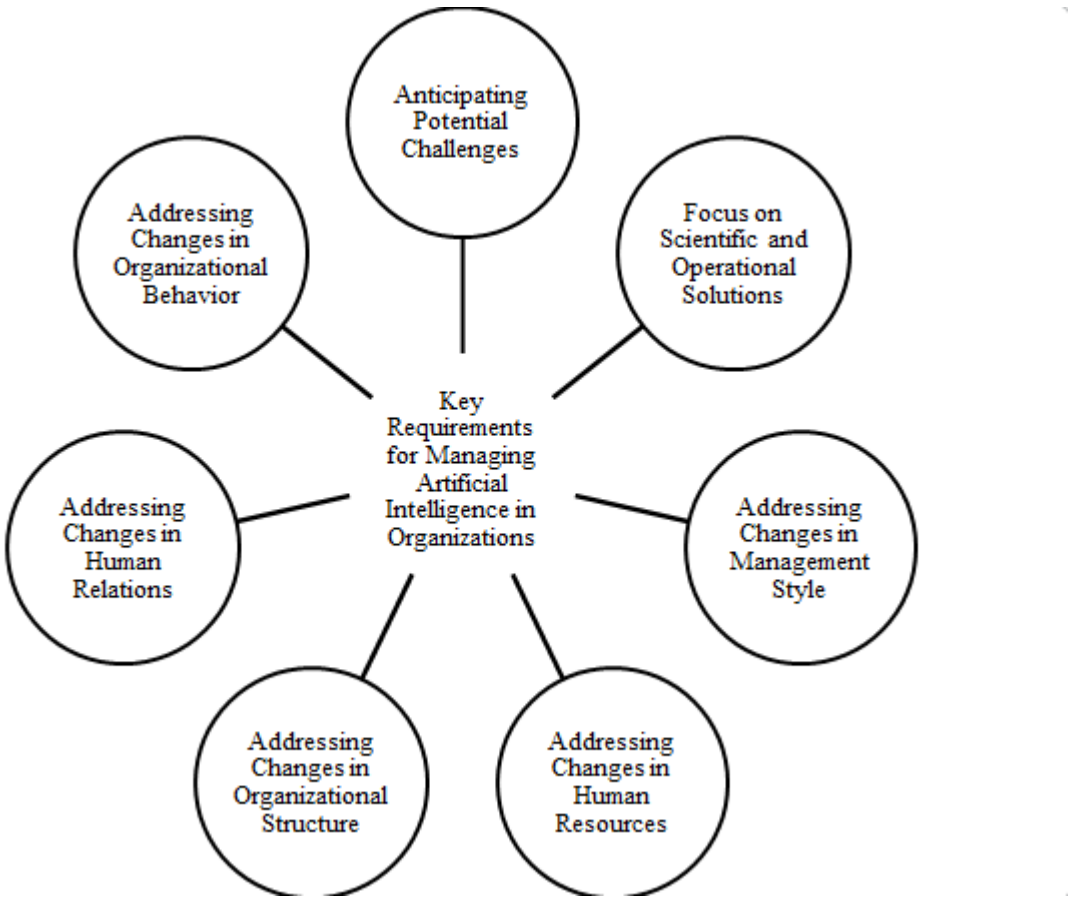

Figure 1. Conceptual Research Model: Strategic Framework for AI Integration in HRM (Source: By author)

5. Discussion and Conclusion

This section interprets the research findings in light of existing literature, addresses the research question, highlights the study's contributions and novelty, and provides practical recommendations for HR managers. It also discusses limitations and suggests directions for future research.

5.1. Discussion of Findings

The primary objective of this study was to identify the critical success factors for managing organizational transformations arising from the integration of Artificial Intelligence into Human Resource Management. The findings yielded ten validated strategic codes organized within five core areas of organizational change: **management style adaptation, human resources development, organizational structure modification, human relations enhancement, and organizational behavior adjustment**. These results provide a comprehensive framework for HR managers to navigate the complexities of AI adoption.

5.1.1. Alignment with Existing Literature

The findings of this study corroborate and extend the contributions of prior international research on AI in HRM. Several key alignments are noteworthy:

Management Style and Decision-Making:

Consistent with studies by Kelm and Johann (2025) and Mabrouk (2025), this research confirms that AI adoption necessitates a shift in managerial approaches. Managers must balance data-driven insights with human intuition and ethical considerations. The findings emphasize that AI should serve as an intelligent decision-support tool rather than replacing managerial judgment. This aligns with the broader literature on human-AI collaboration, which underscores the irreplaceable value of human creativity, empathy, and ethical reasoning (Lee et al., 2025).

Workforce Transformation and Reskilling:

The emphasis on human resources transformation (Code 2) resonates with studies by Amie-Ogan (2025) and Deep Smith (2025), which highlight the urgent need for workforce reskilling and upskilling. As AI automates routine and analytical tasks, employees must acquire new competencies to remain relevant. This finding reinforces the concept of "human-centric AI," where technology augments rather than replaces human capabilities.

Organizational Structure and Agility:

The finding that AI drives organizations toward flatter, more agile structures (Code 3) is consistent with research by Rudko et al. (2021) and Jovari (2025). AI enables the elimination of redundant managerial layers and accelerates decision-making processes. However, this study adds that such structural changes must be accompanied by cultural readiness and employee empowerment to prevent resistance.

Ethical and Legal Considerations:

The development of ethical frameworks (Code 10) and anticipation of emerging challenges (Code 6) align with extensive literature on AI ethics, including concerns about algorithmic bias, data privacy, transparency, and legal gaps (Laux et al., 2024; Walters & Novak, 2021; Grzybowski et al., 2024). This study reinforces the call for proactive ethical governance and regulatory adaptation.

5.1.2. Novel Contributions of This Study

While the findings align with global literature, this research offers three distinctive contributions that constitute its originality:

A) Cultural Localization of AI Frameworks (Code 8)

Unlike most prior studies that propose universal AI adoption models, this research explicitly addresses the localization of AI within the Iranian-Islamic cultural context. The findings emphasize that AI integration must respect indigenous cultural values, ethical principles, and social norms. This is particularly significant because cultural factors profoundly influence employee attitudes, organizational behavior, and acceptance of technological change. By proposing a culturally sensitive framework, this study fills a critical gap in regional and Persian-language literature.

B) Emphasis on Psychological and Behavioral Dimensions

This study places unprecedented emphasis on the psychological and behavioral challenges of AI adoption, including employee fear of job replacement (Code 4), resistance to change, and the need for psychological empowerment (Code 9). The findings highlight that "preventing confrontation and employee sabotage" is a major barrier to effective technology adoption. While prior studies have acknowledged employee concerns, this research operationalizes these factors as strategic imperatives, providing concrete recommendations for addressing them through transparent communication, trust-building, and counseling.

C) Clear Differentiation Between Human and Artificial Intelligence

The findings assert unequivocally that AI cannot replicate intrinsic human competencies such as intuition, analytical thinking, empathy, creativity, and ethical reasoning (Code 1). This distinction is strategically important for HRM policies, as it underscores that AI should be positioned as a complement (assistant, facilitator) to human intelligence, not a replacement. This perspective helps mitigate fears of job displacement and provides a positive narrative for AI integration.

5.1.3 Addressing the Research Question

The research was guided by the fundamental question:

"How can smart human resource managers prepare their organizations to intelligently accommodate artificial intelligence?"

Based on the findings, the answer is multidimensional. Smart HR managers must adopt a **holistic and proactive approach** that addresses the five core transformation areas and ten strategic codes identified in this study. Specifically:

1. **Modify management style** (Code 1): Balance data-driven decision-making with human intuition, ethics, and empathy.
2. **Transform human resources** (Code 2): Invest in reskilling and upskilling to prepare the workforce for AI collaboration.
3. **Adjust organizational structure** (Code 3): Move toward flatter, more agile structures while ensuring cultural readiness.
4. **Manage human relations** (Code 4): Address employee fears through transparent communication, trust-building, and psychological support.
5. **Shape organizational behavior** (Code 5): Foster a culture that embraces technological change while valuing human contributions.
6. **Anticipate challenges** (Code 6): Proactively assess risks related to bias, privacy, legal gaps, and technical errors.
7. **Adopt scientific and practical solutions** (Code 7): Implement AI incrementally, pilot-test systems, and foster interdisciplinary collaboration.
8. **Ensure cultural readiness and localization** (Code 8): Align AI frameworks with national and organizational cultural values.
9. **Empower employees psychologically** (Code 9): Provide awareness programs, counseling, and clear communication about AI's role.

10. **Develop ethical frameworks** (Code 10): Establish guidelines for transparency, accountability, fairness, and privacy.

In essence, successful AI integration is not merely a technological upgrade but a **comprehensive organizational transformation** that requires deliberate interventions across management, human resources, structure, relations, behavior, culture, ethics, and psychology.

5.2. Practical Recommendations for HR Managers

Based on the research findings, the following practical recommendations are proposed for HR managers and organizational decision-makers:

Recommendation 1: Develop a Strategic AI Roadmap

- Conduct a comprehensive organizational readiness assessment.
- Define clear objectives for AI integration aligned with organizational strategy.
- Develop a phased implementation plan with measurable milestones.

Recommendation 2: Invest in Human Capital Development

- Design and implement reskilling and upskilling programs for all employees.
- Create new career pathways that incorporate AI collaboration competencies.
- Establish continuous learning platforms and digital literacy initiatives.

Recommendation 3: Foster a Culture of Trust and Collaboration

- Communicate transparently about AI's role and its impact on jobs.
- Involve employees in the AI adoption process through participatory decision-making.
- Provide psychological counseling and support services to address anxiety and resistance.

Recommendation 4: Redesign Organizational Structures

- Evaluate existing organizational structures for redundancy and inefficiency.
- Introduce agile and flexible work arrangements enabled by AI.
- Define new roles and responsibilities for AI specialists and human-AI teams.

Recommendation 5: Establish Ethical and Cultural Guidelines

- Develop an AI ethics charter aligned with organizational and cultural values.
- Ensure transparency, fairness, and accountability in all AI applications.
- Localize AI frameworks to respect national and cultural norms.

Recommendation 6: Proactively Manage Risks

- Conduct regular risk assessments for AI systems.
- Establish mechanisms for monitoring algorithmic bias and data privacy.
- Stay informed about legal and regulatory developments in AI governance.

Recommendation 7: Pilot and Iterate

- Start with small-scale pilot projects before full-scale implementation.
- Gather feedback from employees and stakeholders.

- Continuously refine AI systems based on user experience and organizational learning.

5.3. Theoretical and Practical Implications

Theoretical Implications:

This study contributes to the growing body of knowledge on AI in HRM by offering a comprehensive, empirically validated framework that integrates technological, organizational, cultural, psychological, and ethical dimensions. It extends existing theories by emphasizing cultural localization and behavioral factors, which have been largely neglected in prior research. The study also provides a foundation for future research to explore the interrelationships between the identified strategic codes and their impact on organizational outcomes.

Practical Implications:

For organizations, this research provides a practical roadmap for navigating AI adoption. It highlights that successful AI integration requires more than technological investment; it demands deliberate attention to human factors, cultural values, and ethical governance. For HR managers, the findings offer actionable insights to lead organizational change, manage employee concerns, and harness AI's potential while safeguarding human dignity and organizational values.

5.4. Limitations and Future Research Directions

Limitations:

1. Sample Size and Generalizability: The study was based on a sample of 20 experts selected through snowball sampling. While this is appropriate for qualitative research, the findings may not be directly generalizable to all organizational contexts. Each organization faces unique challenges based on its mission, structure, and culture.
2. Geographical and Cultural Specificity: The research was conducted within the Iranian organizational context, with specific emphasis on Iranian-Islamic cultural values. The findings may require adaptation for application in other cultural settings.
3. Nascent Nature of the Topic: AI is a rapidly evolving field, and the organizational understanding of AI remains ambiguous and often oversimplified. This could have influenced participant responses.
4. Influence of Respondent Perception: As with all qualitative research, the findings are inherently influenced by respondents' level of understanding, interpretation, and analysis of the subject.
5. Cross-Sectional Design: The study was conducted at a single point in time and does not capture the dynamic evolution of AI integration processes over time.

Future Research Directions:

1. Longitudinal Studies: Conduct longitudinal research to track AI integration processes over time and assess the long-term impact on organizational outcomes, employee attitudes, and HRM practices.
2. Comparative Studies: Compare AI integration approaches across different cultural contexts, industries, and organizational sizes to identify contextual variations and best practices.
3. Quantitative Validation: Develop and validate a quantitative instrument based on the ten strategic codes to enable large-scale surveys and statistical testing of the proposed framework.
4. Employee-Centric Research: Conduct in-depth studies focusing specifically on employee experiences, perceptions, and coping strategies during AI adoption.
5. Case Studies: Undertake detailed case studies of organizations that have successfully or unsuccessfully implemented AI in HRM to derive practical lessons.
6. Ethical AI Governance: Explore mechanisms for effective ethical governance of AI, including regulatory frameworks, oversight bodies, and accountability structures.
7. Human-AI Collaboration: Investigate the dynamics of human-AI collaboration in work settings and identify factors that enable effective partnership between humans and intelligent systems.

5.5. Conclusion

This research has demonstrated that the integration of Artificial Intelligence into Human Resource Management is not merely a technological transition but a **fundamental organizational transformation** that requires comprehensive strategic planning across multiple dimensions. The ten strategic codes identified in this study—encompassing management style, human resources, organizational structure, human relations, organizational behavior, challenge anticipation, practical solutions, cultural localization, psychological empowerment, and ethical frameworks—provide a robust framework for guiding organizations through this transformation.

The study underscores that AI should be positioned as a **complement to human intelligence**, not a replacement. While AI offers unprecedented capabilities in data analysis, automation, and precision, it cannot replicate human attributes such as creativity, empathy, ethical reasoning, and intuitive judgment. Therefore, the successful integration of AI in HRM hinges on creating synergies between human and artificial intelligence.

The findings also highlight the critical importance of **cultural localization and psychological empowerment**. By aligning AI frameworks with cultural values and addressing employee fears through trust-building and transparency, organizations can overcome resistance and foster a positive environment for technological change.

Finally, this research contributes to both theory and practice by offering an empirically validated, culturally sensitive model that extends beyond technological considerations to encompass the human, organizational, and ethical dimensions of AI adoption. It provides HR

managers with a strategic roadmap to navigate the complexities of AI integration while upholding organizational values, human dignity, and ethical principles.

In the era of rapid technological advancement, organizations that proactively address these strategic codes will be better positioned to harness the transformative potential of AI, achieve sustainable competitive advantage, and create work environments that value both technological innovation and human flourishing.

Declarations

Author Contributions (CRediT taxonomy)

The corresponding author alone is responsible for all stages of this research, including conceptualization, methodology design, data collection and analysis, writing, editing, and preparation of the final manuscript.

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Ethical Statement

This research was conducted in full compliance with ethical standards. All participants provided written informed consent prior to participation and were assured of the confidentiality of their personal information and the anonymity of their identities throughout the research process and in the publication of findings. The researcher committed to using the collected data solely for the scientific purposes of this study.

Authors' AI Use Statement

The author declares that no artificial intelligence (AI) tools were used in the writing, analysis, or data generation of this manuscript. All content is the sole result of the author's own human effort, intellectual judgment, and scholarly rigor

Conflict of interest

The author declares that there are no known competing financial interests or personal relationships that could have influenced the work reported in this paper**.**

Data Availability Statement

The data that support the findings of this study are available from the corresponding author upon reasonable request.

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