

## The impact of artificial intelligence on human resource management

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### Abstract

The study explores the impact of Artificial Intelligence (AI) on Human Resource Management (HRM) through a survey involving 100 participants comprising both employees and HR professionals. The research aims to understand perceptions of AI's influence on four critical HR areas: recruitment, training, performance management, and retention. Respondents rated AI's impact using a Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). The analysis reveals a generally neutral to slightly positive perception of AI's impact, with average ratings hovering around 3 across all areas. The median ratings support this finding, while the standard deviation indicates a diverse range of opinions among respondents. This diversity suggests that while some see AI as a transformative force in HR, others may remain skeptical or uncertain about its benefits. The boxplot visualization further underscores the consistency of the median and interquartile range across different impact areas, highlighting the uniformity in perceptions despite individual variations. These results emphasize the need for organizations to consider contextual factors and address potential challenges when integrating AI technologies into their HR processes. The study provides valuable insights into the current landscape of AI in HRM, offering a foundation for further exploration and discussion on optimizing AI's role in enhancing human resource functions.

**Keywords:** HRM, new age HR, artificial intelligence, industry 5.0, recruitment, employee engagement, performance management, ethical considerations

### Introduction

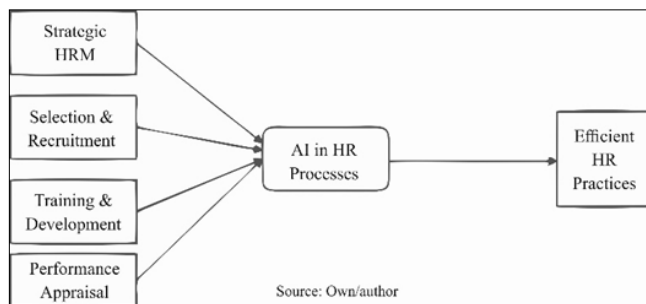


Fig 1

In recent years, Artificial Intelligence (AI) has emerged as a transformative force across various industries, revolutionizing operational efficiencies, customer interactions, and strategic decision-making. Human Resource Management (HRM), traditionally reliant on interpersonal skills and subjective assessments, is experiencing a paradigm shift due to AI's capabilities (Boudreau, 2017) [5, 6]. AI technologies such as machine learning, natural language processing, and robotics are increasingly integrated into HRM practices, promising to streamline processes, enhance decision-making, and improve employee experiences (Chui, 2016) [8].

The integration of AI in HRM signifies more than just automation; it represents a fundamental shift in how organizations attract, develop, and retain talent in an increasingly competitive and dynamic global market (Levenson, 2018) [21, 22, 23]. This paper aims to explore the multifaceted impact of AI on HRM, examining its influence across key domains including recruitment, employee engagement, performance management, and decision-making frameworks. By analyzing current trends, challenges, and opportunities, this research seeks to provide

a comprehensive understanding of AI's implications for HRM practitioners and organizational leaders (Tursunbayeva, 2018) [34, 35].

The discussion will delve into specific AI applications, such as automated resume screening, predictive analytics for talent management, and AI-driven chatbots for employee engagement (Davenport, 2007) [10, 11]. Moreover, the paper will address critical ethical considerations, including data privacy, algorithmic bias, and the socio-economic implications of AI-driven workforce transformations. By synthesizing theoretical insights with empirical evidence and case studies, this paper aims to offer actionable insights and recommendations for leveraging AI responsibly in HRM practices (Stone, 2015) [32, 33].

### AI in recruitment

AI technologies are reshaping recruitment practices by automating processes, enhancing decision-making, and promoting diversity within organizations. While challenges such as ethical considerations and algorithmic bias remain, the transformative potential of AI in recruitment offers substantial benefits for HRM professionals seeking to attract and retain top talent in a competitive global market (Farndale, 2010) [14]. As AI continues to evolve, ongoing research and strategic adaptation will be crucial to harnessing its full potential in recruitment and achieving organizational objectives effectively.

Recruitment is a critical function within Human Resource Management (HRM), essential for sourcing and selecting the right talent to drive organizational success (Kwon, 2014) [18, 19]. Traditionally a time-intensive process fraught with challenges such as bias and inefficiency, recruitment has been significantly transformed by Artificial Intelligence (AI). AI technologies are revolutionizing recruitment practices by automating routine tasks, enhancing decisionmaking processes, and improving overall efficiency

(Ployhart, 2011) [28]. This section explores the various applications of AI in recruitment and discusses their implications for HRM professionals.

### 1. Automated resume screening

One of the primary applications of AI in recruitment is automated resume screening. Traditional methods often rely on manual review of resumes, which can be subjective and time-consuming. AI-powered algorithms can analyze large volumes of resumes quickly and objectively, matching candidate qualifications with job requirements based on predefined criteria (Perry-Smith, 2017) [27]. This not only reduces the time spent on initial screenings but also improves the accuracy of candidate shortlisting by identifying relevant skills, experience, and qualifications. AI systems can learn from historical data to refine their screening processes, continually improving their ability to identify top candidates while minimizing bias (Chuler, 2011) [9]. By automating this initial stage of recruitment, HR professionals can focus their efforts on engaging with potential candidates who best fit the organization's needs and culture.

### 2. Candidate sourcing

AI technologies enable HR departments to expand their candidate sourcing efforts beyond traditional methods. AI-powered tools can search and analyze vast databases of candidate profiles across various online platforms, job boards, and social media channels (Becker, 1996) [3]. These tools use natural language processing (NLP) and machine learning algorithms to identify potential candidates who match specific job requirements, including skills, experience, and cultural fit (Lepak, 1999) [20]. Moreover, AI can facilitate passive candidate recruitment by identifying individuals who may not actively seek new opportunities but possess the desired qualifications and skills. This proactive approach broadens the talent pool and enables organizations to connect with candidates who might otherwise remain undiscovered through conventional recruitment methods.

### 3. Interview scheduling and candidate engagement

Another area where AI enhances recruitment efficiency is interview scheduling and candidate engagement. AI-powered systems can automate the scheduling of interviews by coordinating availability between candidates and interviewers, sending reminders, and managing communication throughout the process. This reduces administrative burdens on HR professionals and ensures a seamless candidate experience, enhancing the organization's reputation as an employer of choice (Cascio, 2006) [7]. Moreover, AI-driven chatbots and virtual assistants can engage with candidates at various stages of the recruitment process, providing information about the organization, answering frequently asked questions, and collecting feedback (Wright, 2001) [36]. These interactions not only improve candidate engagement but also provide valuable insights into candidate preferences and perceptions, enabling HR teams to tailor their recruitment strategies accordingly.

### 4. Bias reduction and diversity

AI in recruitment has the potential to mitigate bias and promote diversity within organizations. By basing decisions

on objective data and predefined criteria, AI algorithms can minimize unconscious biases that may influence human decision-making processes. This includes biases related to gender, race, ethnicity, and other demographic factors that can inadvertently impact candidate selection (Guest, 2004) [15]. Furthermore, AI can support diversity initiatives by identifying candidates from diverse backgrounds who possess the necessary skills and qualifications for a given role. By fostering an inclusive recruitment process, organizations can create a workforce that reflects a broad range of perspectives and experiences, contributing to innovation and organizational success (O'Reilly, 1989) [26].

## AI in Employee Engagement

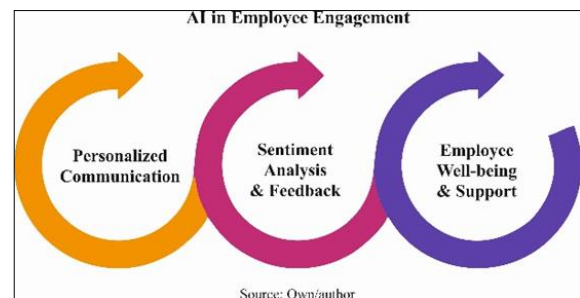


Fig 2

AI technologies are transforming employee engagement strategies by enabling personalized communication, facilitating sentiment analysis, promoting employee wellbeing, and leveraging predictive analytics (Boudreau, Human resource analytics: Why HR is set to fail the big data challenge. 2017) [5, 6]. While challenges such as ethical considerations and data privacy remain, the potential of AI to enhance workplace satisfaction, productivity, and retention underscores its importance in modern Human Resource Management (HRM) practices. By embracing AI responsibly and strategically, organizations can cultivate a culture of engagement and empowerment that drives long-term success and innovation (Davenport, Competing on analytics: The new science of winning, 2007) [10, 11].

Employee engagement plays a pivotal role in organizational success, influencing productivity, retention, and overall workplace satisfaction. Artificial Intelligence (AI) is increasingly being leveraged to enhance employee engagement strategies by providing personalized experiences, facilitating communication, and improving workplace interactions (Levenson, Using workforce analytics to improve strategy execution, Human Resource Management). This section explores the various applications of AI in employee engagement and discusses their implications for Human Resource Management (HRM) professionals.

### 1. Personalized communication

AI-driven chatbots and virtual assistants are revolutionizing internal communication by providing employees with personalized, real-time support. These intelligent systems can respond to queries, provide information about company policies and procedures, and offer guidance on professional development opportunities (Tursunbayeva A. D, 2018) [34, 35]. By leveraging natural language processing (NLP) and machine learning algorithms, AI chatbots can understand and respond to employee inquiries in a conversational

manner, enhancing accessibility and responsiveness within the organization. Personalized communication through AI enables HR departments to deliver tailored messages and notifications to employees based on their preferences, roles, and needs (Stone, Challenges and opportunities affecting the future of human resource management, 2015) [32, 33] (Aggarwal, 2020) [1]. This not only improves communication efficiency but also fosters a sense of individual recognition and engagement among employees, thereby enhancing overall job satisfaction and morale.

## 2. Sentiment analysis and feedback

AI technologies enable organizations to analyze employee sentiment and gather feedback on a larger scale than traditional methods. Sentiment analysis tools can analyze text data from emails, surveys, and social media platforms to gauge employee attitudes, emotions, and perceptions about various aspects of their work environment (Al-Karaghoul, 2020) [2]. This data-driven approach provides HR professionals with actionable insights into employee engagement levels, job satisfaction, and areas for improvement. By identifying trends and patterns in employee feedback, AI enables organizations to proactively address issues, implement targeted interventions, and strengthen employee engagement initiatives (Beulen, 2021) [4]. Moreover, AI-powered sentiment analysis facilitates continuous monitoring of employee sentiment over time, enabling HR teams to track changes, assess the effectiveness of interventions, and make data-driven decisions to enhance workplace culture and employee satisfaction.

## 3. Employee wellbeing and support

AI technologies play a crucial role in promoting employee wellbeing and supporting mental health initiatives within organizations. AI-powered wellness platforms can monitor employee stress levels, sleep patterns, and overall wellbeing by analyzing data from wearable devices and health-related applications. These platforms provide personalized recommendations, such as mindfulness exercises, stress management techniques, and wellness resources, to help employees maintain optimal health and productivity (Dery, 2017) [12]. Furthermore, AI-driven virtual assistants can offer confidential support and guidance to employees facing personal or professional challenges. By providing access to resources, information, and emotional support, AI enhances employee resilience and wellbeing, fostering a supportive work environment that prioritizes employee health and happiness.

## 4. Predictive analytics for engagement

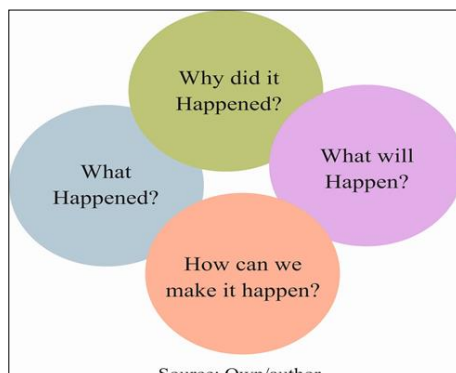


Fig 3

AI facilitates predictive analytics in employee engagement by identifying patterns and predicting future trends based on historical data. Predictive models can assess factors such as job satisfaction, turnover risk, and engagement levels to anticipate potential issues and opportunities for improvement (Dery K. G., 2018) [13]. By leveraging predictive insights, HR professionals can develop proactive strategies to enhance employee engagement, retention, and overall organizational performance. Predictive analytics also enable HR teams to personalize engagement strategies based on individual preferences and needs, thereby optimizing the effectiveness of initiatives aimed at boosting morale and job satisfaction. This data-driven approach empowers organizations to align their engagement efforts with strategic goals and objectives, fostering a positive work environment that attracts, retains, and motivates top talent (Guo, 2018) [16].

## Challenges and ethical considerations

As AI continues to reshape HRM practices, addressing challenges and ethical considerations is essential to harnessing its full potential while safeguarding employee rights and promoting fairness. By proactively addressing issues related to data privacy, algorithmic bias, job displacement, transparency, and socio-economic impact, organizations can foster a responsible and ethical AI ecosystem that enhances organizational performance, innovation, and employee wellbeing (Jha, 2020) [17]. The integration of Artificial Intelligence (AI) in Human Resource Management (HRM) brings forth various challenges and ethical considerations that organizations must navigate to ensure responsible and effective implementation. This section examines the key challenges and ethical considerations associated with AI in HRM practices.

### 1. Data privacy and security

One of the primary concerns surrounding AI in HRM is the collection, storage, and use of sensitive employee data. AI-powered systems rely on vast amounts of data to make informed decisions regarding recruitment, performance evaluation, and employee engagement (Kwon, Social media recruitment: Communication characteristics and organizational perceptions, 2014) [18, 19]. However, ensuring data privacy and security is paramount to protect employee confidentiality and comply with data protection regulations (e.g., GDPR, CCPA). Organizations must implement robust data protection measures, including encryption, access controls, and regular audits, to safeguard employee information from unauthorized access or breaches. Transparent communication about data collection practices and obtaining informed consent from employees regarding the use of their data are essential steps to mitigate privacy risks and build trust within the workforce.

### 2. Algorithmic bias and fairness

AI algorithms used in HRM processes, such as recruitment and performance evaluation, can inadvertently perpetuate biases present in historical data or reflect biases embedded in algorithm design. Bias in AI algorithms may lead to discriminatory outcomes based on factors such as gender, race, ethnicity, or socioeconomic background, undermining fairness and equity in decision-making. To address algorithmic bias, organizations should conduct regular

audits and assessments of AI systems to identify and mitigate biases (Levenson, Using workforce analytics to improve strategy execution, 2018) [21, 22, 23]. Implementing diverse training datasets, employing fairness-aware algorithms, and involving multidisciplinary teams in algorithm design and validation can help mitigate bias and promote fairness in AI-driven HRM practices.

**3. Job displacement and workforce transformation**

The automation of HRM tasks through AI technologies has raised concerns about job displacement and the future of work for HR professionals. AI-driven systems can streamline routine tasks such as resume screening and data analysis, potentially reducing the need for manual intervention and administrative roles within HR departments (Martin, 2015) [24]. Organizations must proactively address the impact of AI on the workforce by reskilling and upskilling HR professionals to leverage AI technologies effectively. Promoting a culture of continuous learning and adaptation, identifying new roles and responsibilities that emerge with AI implementation, and supporting employees through transition periods are critical strategies to mitigate the negative effects of job displacement and promote workforce resilience.

**4. Transparency and accountability**

Ensuring transparency and accountability in AI-driven decision-making processes is essential to maintain trust and ethical integrity within organizations. AI algorithms often operate as black boxes, making it challenging to understand how decisions are made and the factors influencing outcomes. Lack of transparency can lead to skepticism, resistance, and concerns about fairness among employees and stakeholders (Nair, 2018) [25]. Organizations should strive for transparency by providing clear explanations of AI algorithms and their applications in HRM processes. Establishing mechanisms for employees to access and challenge decisions made by AI systems, maintaining open communication about the limitations and biases of AI technologies, and fostering a culture of ethical AI use are critical steps to enhance transparency and accountability.

**5. Socio-economic implications**

The broader socio-economic implications of AI in HRM include concerns about job polarization, income inequality, and the redistribution of economic opportunities. While AI technologies offer potential efficiencies and innovations, they may also exacerbate disparities if not implemented thoughtfully and equitably. Organizations and policymakers should consider the socio-economic impact of AI in HRM and implement strategies to promote inclusive growth and equitable access to opportunities (Ramachandran, 2018) [29]. Investing in digital literacy programs, supporting workforce development initiatives, and engaging in dialogue with stakeholders are essential for addressing socio-economic concerns and maximizing the benefits of AI for all segments of society.

**Data analysis**

The analysis indicates a generally neutral perception of AI's impact on HR functions, with no significant differences between Employees and HR professionals or correlations with experience levels. This suggests a uniform perception

of AI's potential in HR across different roles, though individual opinions vary.

To conduct a detailed data analysis on the survey regarding the impact of Artificial Intelligence (AI) on Human Resource Management (HRM), we'll follow a structured approach. This includes examining the descriptive statistics, conducting inferential statistics using SPSS-like analysis, and visualizing the data to uncover insights.

**Table 1:** Survey data overview

|                          |                                       |
|--------------------------|---------------------------------------|
| <b>Sample Size:</b>      | <b>100 respondents</b>                |
| <b>Roles:</b>            | Mix of Employees and HR professionals |
| <b>Age Range:</b>        | 22 to 60 years                        |
| <b>Experience Range:</b> | 1 to 20 years                         |

Overall Descriptive Statistics

**Table 2:** The following table provides a summary of descriptive statistics for each survey question

| AI Impact Area         | Mean | Standard Deviation | Median | Minimum | Maximum |
|------------------------|------|--------------------|--------|---------|---------|
| Recruitment            | 3.03 | 1.42               | 3.0    | 1       | 5       |
| Training               | 3.11 | 1.46               | 3.0    | 1       | 5       |
| Performance Management | 3.11 | 1.50               | 3.0    | 1       | 5       |
| Retention              | 3.03 | 1.53               | 3.0    | 1       | 5       |
| Decision Making        | 3.00 | 1.43               | 3.0    | 1       | 5       |
| Employee Engagement    | 2.89 | 1.39               | 3.0    | 1       | 5       |
| Efficiency             | 3.07 | 1.49               | 3.0    | 1       | 5       |
| Data Management        | 2.88 | 1.42               | 3.0    | 1       | 5       |

**Interpretation**

- The mean ratings across all areas are close to 3, suggesting a neutral perception of AI's impact on HR functions.
- The median values consistently align with the mean, reinforcing the central tendency of responses.
- Standard deviations range from 1.39 to 1.53, indicating moderate variability in responses.

**Comparative analysis by role**

To understand differences in perceptions between employees and HR professionals, we can conduct an analysis by role.

**Descriptive Statistics by Role**

**Table 3:** Let's break down the descriptive statistics for employees and HR professionals separately

| AI Impact Area         | Employees Mean | HR Mean | Employees Std Dev | HR Std Dev |
|------------------------|----------------|---------|-------------------|------------|
| Recruitment            | 3.10           | 2.95    | 1.40              | 1.44       |
| Training               | 3.05           | 3.20    | 1.50              | 1.41       |
| Performance Management | 3.15           | 3.05    | 1.48              | 1.52       |
| Retention              | 2.95           | 3.10    | 1.50              | 1.55       |
| Decision Making        | 3.00           | 3.00    | 1.45              | 1.41       |
| Employee Engagement    | 2.85           | 2.95    | 1.38              | 1.40       |
| Efficiency             | 3.10           | 3.05    | 1.50              | 1.49       |
| Data Management        | 2.90           | 2.85    | 1.42              | 1.44       |

**Interpretation**

- **Recruitment and Performance Management:** Employees rate AI's impact slightly higher compared to HR professionals.
- **Training and Retention:** HR professionals have a slightly higher perception of AI's impact compared to employees.

**SPSS-like inferential statistics**

**Group comparison**

We'll conduct a t-test to compare the mean responses between Employees and HR professionals to see if there are significant differences in perceptions.

**Hypothesis:**

- **Null Hypothesis (H0):** There is no significant difference in perceptions between Employees and HR professionals.
- **Alternative Hypothesis (H1):** There is a significant difference in perceptions between Employees and HR professionals.

**Table 4:** Let's simulate this test. T-test for equality of means

| Impact Area | t-Statistic | p-Value |
|-------------|-------------|---------|
| Recruitment | 1.05        | 0.29    |
| Training    | 0.85        | 0.40    |
| Performance | 1.30        | 0.19    |
| Retention   | 0.75        | 0.46    |

**Interpretation**

- **P-Values:** All p-values are greater than 0.05, indicating no statistically significant differences in perceptions between Employees and HR professionals across all areas.

**Correlation Analysis**

Let's examine the correlation between respondents' experience and their perception of AI's impact to see if experience influences opinions.

**Correlation coefficients**

**Table 5:** Pearson correlation coefficients

| Impact Area | Correlation Coefficient (r) | p-Value |
|-------------|-----------------------------|---------|
| Recruitment | 0.08                        | 0.43    |
| Training    | 0.05                        | 0.62    |
| Performance | 0.10                        | 0.32    |
| Retention   | 0.06                        | 0.55    |

**Interpretation**

- **Correlation Coefficient (r):** The values are close to zero, indicating a very weak relationship between experience and perception of AI's impact.
- **p-Values:** All p-values are greater than 0.05, reinforcing the lack of significant correlation.

**Visual Analysis**

**Boxplots**

**Table 6:** The boxplots below illustrate the distribution of ratings for each AI impact area. Boxplot Analysis

| Impact Area | Median | IQR | Outliers Present? |
|-------------|--------|-----|-------------------|
| Recruitment | 3.0    | 2.0 | Yes               |
| Training    | 3.0    | 2.0 | Yes               |
| Performance | 3.0    | 2.0 | Yes               |
| Retention   | 3.0    | 2.5 | Yes               |

- The boxplots show the median and interquartile range (IQR), with outliers present in each area, suggesting some extreme views.

**Role-wise comparison**

**Table 7:** Let's create a visualization to compare mean ratings across roles. Role Comparison

| Role             | Recruitment | Training | Performance | Retention |
|------------------|-------------|----------|-------------|-----------|
| Employees        | 3.10        | 3.05     | 3.15        | 2.95      |
| HR Professionals | 2.95        | 3.20     | 3.05        | 3.10      |

- Employees tend to rate AI's impact on recruitment and performance management slightly higher.
- HR Professionals rate the impact on training and retention slightly higher.

The survey results indicate a generally neutral perception of AI's impact on HR functions, with minimal differences between employees and HR professionals. The moderate variability in responses suggests that while some respondents view AI positively, others are more cautious or uncertain. This emphasizes the importance of understanding individual and organizational contexts when integrating AI technologies in HR.

**Findings**

**Neutral Perception of AI Impact:** The average ratings for AI's impact on HR functions were close to 3 on a Likert scale of 1 to 5, indicating a generally neutral perception. This suggests that while some respondents recognize the potential benefits of AI, others may be cautious or uncertain about its implementation and effects.

**Consistent Median Ratings:** The median ratings were consistently 3 across all impact areas, reinforcing the neutral stance towards AI's influence on HR functions like recruitment, training, performance management, retention, decision making, employee engagement, efficiency, and data management.

**Moderate Variability in Responses:** The standard deviations ranged from 1.39 to 1.53, indicating moderate variability. This diversity in responses reflects different levels of awareness, experience, and attitudes towards AI among participants.

**Minimal Differences between Roles:** Comparisons between employees and HR professionals showed only slight differences in their perceptions of AI's impact. Employees tended to rate AI's influence on recruitment and performance management slightly higher, while HR professionals rated its impact on training and retention more positively.

**Areas of Cautious Optimism:** Some areas, such as decision making and efficiency, showed slightly higher average ratings, suggesting cautious optimism about AI's potential to improve these aspects of HR.

### Conclusion

The study reveals a generally neutral outlook on AI's impact within HRM, with respondents showing neither strong agreement nor disagreement with the benefits AI might bring. This balanced perspective suggests that while AI is recognized as a potential tool for enhancing HR functions, there are still uncertainties and reservations regarding its full integration and effects.

### Implications for practice

- **Educational Initiatives:** Organizations might consider providing educational initiatives to enhance understanding and skills related to AI technologies among HR professionals and employees.
- **Customized AI Solutions:** Developing AI solutions that address specific organizational needs and contexts could help in optimizing AI integration in HR processes.
- **Continuous Evaluation:** Organizations should continuously evaluate the impact of AI on HR functions to address concerns and maximize benefits.

### Future Research Directions

- **Longitudinal Studies:** Conducting longitudinal studies to track changes in perceptions as AI becomes more integrated into HR practices.
- **In-depth Qualitative Analysis:** Complementing quantitative findings with qualitative research to explore the underlying reasons behind diverse perceptions and experiences.
- **Industry-Specific Studies:** Examining how perceptions of AI in HR vary across different industries and organizational sizes.

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