Impact of Artificial Intelligence on the Human Resources Management

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Abstract

This research article aims to explore and assess the influence of music education on cognitive development in children. Drawing upon various theories and previous studies, the research seeks to provide a comprehensive analysis of the potential benefits of music education in enhancing cognitive abilities such as memory, attention, problem-solving, and language skills. A thorough literature review was conducted, encompassing studies from diverse disciplines, including psychology, education, neuroscience, and music therapy. The review revealed that exposure to music activates multiple regions of the brain involved in cognitive processes, suggesting a strong interconnection between music and cognitive development. The findings indicated that music education, with its structured learning, practice, and performance elements, could actively contribute to the cognitive growth of children. This study employed a mixed-methods approach, including both quantitative and qualitative methodologies, to examine the cognitive skills of children enrolled in formal music education programs in comparison to those without such exposure. The quantitative analysis involved administering standardized cognitive tests to measure various aspects of cognitive development, while the qualitative component included interviews and observations to capture the nuanced experiences and perceptions of the participating children and their parents. Preliminary findings from this study indicate that children engaged in music education demonstrated higher levels of cognitive performance compared to their non-musical peers. Specifically, participants displayed improved attention span, verbal and non-verbal memory, problem-solving abilities, and creativity. The qualitative data explored the positive impact of music education on self-esteem, discipline, social skills, and emotional well-being, providing a holistic perspective on the potential benefits of music beyond cognitive development. This research article concludes by discussing the implications of these findings for educators, policymakers, and parents. It highlights the significance of integrating music education into school curricula and recommends further investment in music programs to optimize cognitive development in children. The study underscores the importance of a well-rounded education that recognizes the multifaceted benefits of music across different domains of child development.

Introduction

Artificial intelligence (AI) has emerged as a revolutionary technology, transforming various industries and redefining the way businesses operate [1]. With its ability to simulate human intelligence and perform complex tasks, AI has significant implications for human resources management (HRM). HRM is a strategic approach to managing an organization's human capital, focusing on recruiting, selecting, training, developing, and retaining employees. The integration of AI into HRM processes has the potential to streamline operations, enhance decision-making, and drive organizational success. This research article aims to explore the impact of AI on various aspects of HRM, shedding light on its significance and potential challenges [2].

Artificial intelligence refers to the development of machines and computer systems capable of mimicking human intelligence and performing tasks that typically require human involvement. AI technologies, such as machine learning, natural language processing, and cognitive computing, enable computers to learn from experience, make decisions, and adapt to new information [3].

Human resources management encompasses a range of activities aimed at maximizing the potential of an organization's workforce [4]. It involves recruiting and selecting candidates, providing training and development opportunities, managing employee performance, fostering employee engagement, and ensuring compliance with labor laws. HRM plays a critical role in aligning organizational goals with the capabilities and needs of its workforce to drive productivity, innovation, and employee satisfaction [5].

The integration of AI in HRM practices offers numerous benefits that can greatly enhance organizational efficiency and effectiveness. One of the major advantages of using AI in HRM is the automation of routine and repetitive tasks [6]. HR departments often spend significant time and resources on activities such as resume screening, candidate shortlisting, and scheduling interviews. By leveraging AI, these time-consuming tasks can be automated, allowing HR professionals to allocate their time to more strategic and value-added activities. For instance, AI-powered resume screening tools can use natural language processing algorithms to scan resumes and identify candidates that closely match the job requirements. This not only saves time spent on manually reviewing each resume but also improves the quality of shortlisted candidates by eliminating potential bias in the screening process [7].

AI can also improve decision-making in HRM by providing data-driven insights and predictive analytics. For example, AI algorithms can analyze large volumes of employee data, including performance ratings, training records, and employee feedback, to identify patterns and trends [8]. This information can help HR professionals in making informed decisions regarding talent development, succession planning, and workforce management strategies.

Furthermore, AI can enhance the employee experience by providing personalized and proactive support. Chatbots, powered by AI, can be utilized to handle employee queries related to benefits, leave requests, and general HR information [10]. These chatbots can provide round-the-clock assistance, allowing employees to access the information they need at their convenience. By reducing employee frustration and providing timely information, AI-driven chatbots can improve overall employee satisfaction and engagement.

Integrating AI into HRM practices also poses various challenges that organizations need to consider. Ethical implications and biases in AI algorithms are a critical concern [11]. For instance,

if AI algorithms are trained on biased data, it may perpetuate discrimination or unequal treatment in HR processes, such as candidate screening or performance evaluations. Organizations need to ensure that AI systems are developed with fairness, transparency, and accountability, and that potential biases are identified and addressed.

Data privacy is another important challenge when implementing AI in HRM practices. AI systems require access to vast amounts of employee data for analysis and decision-making. Organizations must ensure that proper data privacy protocols are in place to protect employee information and comply with data protection laws [19]. Additionally, transparent communication with employees about the usage of AI and the safeguarding of their data is necessary to build trust and alleviate any privacy concerns [15].

Job displacement is another concern associated with AI implementation in HRM. While AI can automate several tasks, there may be fears among employees about job security [17]. Organizations should be transparent about the intentions behind AI adoption, emphasizing that it is aimed at enhancing HR processes and creating opportunities for employees to focus on higher-value work. Upskilling and reskilling programs should be implemented to ensure employees are prepared for new roles that emerge as a result of AI integration.

Literature review

The integration of AI into HRM processes has the potential to revolutionize these activities and significantly impact the overall effectiveness of HRM [12].

One area where AI can have a significant impact on HRM is in the recruitment and selection process. Traditionally, HR departments have relied on manual screening and interviewing processes to identify qualified candidates. This process can be time-consuming and prone to human biases. AI algorithms can automate the screening process by analyzing resumes, conducting video interviews, and assessing candidates' skills and competencies [23]. This not only saves time but also improves the objectivity and accuracy of candidate evaluation, leading to better hiring decisions.

AI-powered chatbots can also be used to enhance the candidate experience by providing real-time responses to queries and guiding candidates through the application process [32]. This not only improves efficiency but also enhances the overall candidate experience, leading to higher levels of candidate satisfaction.

In addition to recruitment and selection, AI can also play a crucial role in employee training and development [35]. AI-powered platforms can personalize training programs based on individual employee needs, preferences, and performance data. These platforms can utilize machine learning algorithms to identify skill gaps, recommend relevant training content, and track employee progress.

AI can facilitate continuous learning by providing employees with access to a vast repository of learning resources, such as online courses, articles, and videos [38]. This self-directed learning approach empowers employees to acquire new skills and knowledge at their own pace, thus fostering a culture of lifelong learning within the organization.

Another area where AI can impact HRM is in performance management. Traditional performance appraisal systems often suffer from subjectivity and bias [40]. AI can provide real-time feedback

on employee performance by analyzing objective data, such as sales figures, customer satisfaction ratings, and productivity metrics. This allows managers to make informed decisions regarding performance evaluations, promotions, and rewards. AI can also identify patterns and trends in employee performance data, enabling HR managers to design targeted interventions to improve employee performance [29].

The integration of AI into HRM is not without challenges. One significant concern is the potential for bias in AI algorithms. If the training data used to develop AI systems is biased, it can perpetuate existing discriminatory practices and exacerbate inequalities within the workforce. Additionally, there may be resistance from employees who fear that AI will replace their jobs or infringe on their privacy rights [44].

The integration of AI into HRM has the potential to transform various aspects of HRM, including recruitment and selection, training and development, and performance management. While there are challenges and concerns that need to be addressed, the benefits of AI in enhancing HRM processes and driving organizational success are immense [57]. Further research in this area is required to explore the long-term impact of AI on HRM and its implications for organizational practices and policies.

Impact of AI in Human Resources Management

Impact of AI on HRM recruitment process

Use of AI in resume screening and candidate shortlisting

One significant impact of AI on the HRM recruitment process is the use of AI in resume screening and candidate shortlisting [59]. Traditionally, HR professionals spend a significant amount of time reviewing resumes and manually shortlisting candidates for further evaluation. This process can be labor-intensive and time-consuming. AI algorithms have significantly improved this process by automating the resume screening and candidate shortlisting tasks.

AI algorithms are capable of analyzing vast amounts of data from resumes and identifying the most suitable candidates for a given job position. By utilizing natural language processing (NLP) and machine learning techniques, AI can quickly scan resumes, extract relevant information, and assess the qualifications, skills, and experience of each candidate. This automated process not only saves time and effort for HR professionals but also helps eliminate biases that might arise in human-led screenings [42].

Several studies have reported the effectiveness and efficiency of AI-driven resume screening in improving the quality of shortlisted candidates. For example, research by [33] highlights the performance classification approach based on AI algorithms for applicant selection, which demonstrated improved outcomes compared to traditional methods. Another study by [52] explored the inclusion of artificial intelligence in the early stages of personnel selection and found that AI-assisted resume evaluation systems resulted in more accurate and fair assessments.

AI-powered chatbots for initial candidate interaction

Another significant impact of AI on the recruitment process is the emergence of AI-powered chatbots for initial candidate interaction [26]. Chatbots are computer programs designed to simulate human conversation through NLP and machine learning. By leveraging AI technology,

these chatbots can engage and interact with candidates during the initial stages of the recruitment process [31].

AI chatbots can answer frequently asked questions, provide information about the company and the job position, and even conduct preliminary assessments. They enhance the candidate experience by providing instant and personalized responses, available 24/7. This automation eliminates the need for manual follow-ups and frees up HR professionals' time for more critical tasks [30].

Research supports the positive impact of AI chatbots on candidate engagement, satisfaction, and recruitment efficiency. A study by [19] investigated the influence of chatbot quality on user engagement and revealed that high-quality chatbot interactions positively affected candidate engagement. Another study by [22] explored the business implications of AI and highlighted the potential of chatbot technology in improving customer service and engagement.

Identification of best-fit candidates through AI-based algorithms

AI-based algorithms play a crucial role in identifying the best-fit candidates for specific job roles. These algorithms evaluate large data sets encompassing qualifications, skills, experience, behavioral traits, and cultural fit to determine which candidates are most likely to excel in a particular position. Based on these evaluations, AI algorithms provide a more objective and comprehensive assessment compared to traditional methods [36].

AI algorithms continuously learn and improve based on the performance and feedback of previously hired candidates. This adaptive approach allows for increasingly accurate predictions about candidate success in specific job roles [37]. Several studies have reported the successful use of AI algorithms in identifying top-performing employees and reducing turnover rates. For instance, a study by [46] examined the impact of high-performance work systems on work engagement and found significant positive effects on employee motivation and performance.

Impact of AI on HRM training and development

Personalized learning experiences through AI platforms

AI technology has revolutionized the way HRM training and development programs are delivered by offering personalized learning experiences. AI platforms can analyze individual employee profiles, skillsets, and learning preferences to provide tailored training content and modules. These platforms utilize machine learning algorithms to track and comprehend employees' strengths, weaknesses, and learning progress [38]. This enables HR professionals to design training programs that are specifically tailored to meet the needs of each employee, allowing for personalized development plans and increased engagement.

AI-driven recommendation systems for skill enhancement

AI has enabled the development of recommendation systems specifically designed for skill enhancement. By analyzing employee performance data, AI algorithms can identify skill gaps and suggest appropriate training modules or courses to address those gaps. These recommendation systems use a combination of predictive analytics and machine learning to understand an employee's current skillset and future requirements [40]. Additionally, AI-driven recommendation systems can provide feedback and suggestions for further skill development based on an employee's career goals and the organization's requirements.

Automation of training assessments and feedback through AI

AI has automated the process of training assessments and feedback, making it more efficient and accurate. AI-powered assessment tools can evaluate employees' performance and provide detailed feedback, eliminating the need for manual evaluation by trainers or HR professionals [39]. These tools use natural language processing and sentiment analysis techniques to analyze written responses or verbal feedback from employees, providing real-time and objective evaluations. Additionally, AI can generate personalized development plans based on the assessment results, enabling a continuous learning process for the employees [42].

Impact of AI on HRM employee engagement and retention

AI-based employee feedback and pulse surveys

AI technology has transformed the way HRM professionals collect and analyze employee feedback, leading to improved employee engagement and retention strategies. AI-based platforms can automate the process of gathering feedback from employees through pulse surveys, which are short and frequent surveys designed to capture real-time employee sentiments and opinions [43].

Using natural language processing (NLP) techniques, AI algorithms can analyze the text responses from employees and identify key themes and sentiments. This enables HR professionals to gain valuable insights into employee attitudes, concerns, and satisfaction levels [44]. By automating the feedback collection process, AI platforms can provide efficient and anonymous channels for employees to express their thoughts, increasing transparency and trust within the organization. Consequently, this data-driven approach helps HR professionals make informed decisions to enhance employee engagement and retention [45].

Sentiment analysis for understanding employee satisfaction

AI-powered sentiment analysis plays a crucial role in understanding employee satisfaction and engagement levels. By analyzing textual data such as employee feedback, social media posts, and communication platforms within the workplace, AI algorithms can determine the sentiment and emotional tone expressed by employees [48].

Sentiment analysis allows HR professionals to identify patterns and trends, enabling them to gauge overall employee satisfaction and identify areas that require attention. For instance, if sentiment analysis reveals a significant number of negative sentiments related to leadership or work-life balance, HR professionals can address these issues proactively [50]. This technology enables organizations to respond to employee concerns swiftly, improving overall satisfaction and engagement levels.

Predictive analytics for identifying factors affecting employee retention

AI's predictive analytics capabilities have revolutionized HRM's approach to employee retention. By analyzing vast amounts of employee data, including performance metrics, historical attrition rates, survey responses, and external factors, AI algorithms can identify factors that significantly impact employee retention [51].

By identifying correlations and patterns within the data, AI can provide insights into potential turnover risks and highlight key factors influencing employee retention. For instance, predictive analytics may reveal that employees who have not received training or been provided growth

opportunities are more likely to leave the organization. Armed with this knowledge, HR professionals can then take proactive measures such as targeted training programs, career development opportunities, or personalized recognition to improve employee retention [53].

AI-driven predictive analytics not only helps identify high-risk individuals but also aids in developing proactive strategies for employee engagement. It enables HR professionals to take pre-emptive actions tailored to individual employees, thereby reducing turnover rates and bolstering overall employee satisfaction and retention [53].

Ethical considerations in implementing AI in HRM

Potential biases and discrimination in AI algorithms

One important aspect of implementing AI in HRM is to address the potential biases and discrimination in AI algorithms. AI algorithms are trained on historical data, which may contain biases and societal prejudices. For example, if historically certain demographic groups have been underrepresented in leadership positions, the AI algorithm may inadvertently learn to discriminate against those groups. It is crucial to identify and eliminate such biases to ensure fairness and equal opportunities for all individuals [54].

Privacy and data security concerns in AI systems

Another ethical consideration when implementing AI in HRM is the protection of privacy and data security. AI systems collect and process a vast amount of personal data, including sensitive information such as health records or performance evaluations. It is essential to have robust security measures in place to safeguard this data from unauthorized access or breaches. Additionally, organizations should be transparent about the data collected and how it is stored and used to build trust with employees and candidates [55].

Ensuring fairness and transparency in AI-driven decision-making

Implementing AI in HRM should prioritize fairness and transparency in decision-making processes. AI systems can assist in various HR processes, such as resume screening or performance evaluation. It is crucial to ensure that these systems are transparent and accountable, allowing individuals to understand how decisions are made [56]. Additionally, organizations should regularly monitor AI systems to ensure they do not inadvertently reinforce biases or unfair practices. Being transparent with employees and candidates about the use of AI systems can help build trust and foster a positive work environment.

Challenges and limitations of AI in HRM

One of the primary challenges of implementing AI in HRM is the resistance from employees towards its adoption. Employees may perceive AI as a threat to job security or fear being replaced by automated systems. They may resist using AI-powered tools for tasks like performance evaluations or recruiting, questioning the accuracy and fairness of AI algorithms. Overcoming this resistance requires effective change management strategies, such as clear communication about the benefits of AI, reassurance about the role of human judgment, and opportunities for employees to provide feedback and be involved in the implementation process [57].

Another challenge is the limited availability of AI expertise within HR departments. AI technologies require specialized knowledge and skills, including data analysis, machine learning,

and algorithm design. Many HR professionals may not possess this expertise, making it challenging to effectively utilize AI in HRM practices. Organizations need to invest in upskilling their HR teams or seek external assistance from AI experts to bridge this knowledge gap [58]. Collaborating with data scientists or partnering with AI vendors can help overcome this limitation.

AI's implementation in HRM raises concerns about the potential loss of human touch and empathy in HR interactions. While AI can automate various administrative tasks and improve efficiency, it may lack the human element required for certain complex and sensitive interactions [60]. HR functions like employee counseling, conflict resolution, or career guidance often require empathy, emotional intelligence, and nuanced judgment, which AI systems may struggle to replicate. Striking a balance between AI-driven automation and maintaining human involvement in critical HR processes is essential to address this limitation. HR professionals should focus on leveraging AI to enhance their capabilities rather than entirely replacing the human element [52].

Case studies of organizations implementing AI in HRM

Google successfully implemented AI in recruitment and onboarding. The organization utilized AI technology to streamline and enhance their recruitment process. AI algorithms were utilized to evaluate and analyze large volumes of resumes and identify the most suitable candidates for open positions based on predefined criteria. This resulted in significant time and cost savings for the company, as the AI system was able to efficiently filter out irrelevant resumes and shortlist qualified candidates. Furthermore, AI was integrated into the onboarding process to provide new hires with personalized training modules and resources, ensuring a smooth and effective onboarding experience [12].

IBM faced challenges in using AI for employee engagement. Despite recognizing the potential of AI in improving employee engagement, the organization encountered obstacles during the implementation process. One major challenge was effectively integrating AI into the existing engagement strategies and systems [15]. The company had to find a balance between automated AI-based engagement initiatives and maintaining the personal touch that employees value. There were concerns about maintaining privacy and trust, as AI systems collected and analyzed employee data. Additionally, the organization had to overcome resistance from employees who were skeptical about the effectiveness and intentions of AI in improving engagement. Overcoming these challenges required clear communication, training, and a gradual implementation approach to build trust and acceptance among employees.

Microsoft focused on balancing AI automation with human intervention in training programs. The organization recognized the benefits of AI in enhancing training efficiency and effectiveness, but also acknowledged the importance of human interaction in the learning process. AI was used to automate certain training modules, providing employees with personalized and self-paced learning experiences [55]. The organization ensured that there were opportunities for human intervention, such as incorporating facilitated discussions, role plays, and mentoring sessions, to address complex topics and provide emotional support. Microsoft realized that solely relying on AI for training might overlook the human element necessary for skills development and fostering a collaborative learning environment. By striking a balance between AI automation and human intervention, the organization aimed to optimize training outcomes and ensure employee engagement during the learning process [61].

Conclusion

It is imperative to recognize and address the significant impact of AI on HRM. The integration of AI into HRM practices has the potential to revolutionize various aspects of HR processes, ultimately driving organizational success. One of the key benefits of AI in HRM is the automation of routine and repetitive tasks. By leveraging AI technology, HR departments can streamline operations and optimize their time and resources. Tasks like resume screening, candidate shortlisting, and interview scheduling can be efficiently automated, allowing HR professionals to focus on more strategic and value-added activities. This not only enhances operational efficiency but also improves the quality of candidate selection by removing potential biases in the screening process. AI enables data-driven insights and predictive analytics, enhancing decision-making in HRM. By analyzing large volumes of employee data, including performance ratings, training records, and feedback, AI algorithms can identify patterns and trends that support informed decision-making in talent development, succession planning, and workforce management strategies. This data-driven approach empowers HR professionals to implement targeted interventions and make proactive decisions that lead to improved employee performance and organizational outcomes. AI can enhance the employee experience by providing personalized and proactive support. Through AI-powered chatbots, employees can access timely and accurate information about benefits, leave requests, and general HR inquiries at any time of the day. This on-demand assistance not only reduces frustration and improves employee satisfaction but also increases overall engagement by enabling employees to access the information they need conveniently. It is crucial to acknowledge the challenges and ethical considerations associated with AI implementation in HRM. Biases in AI algorithms, if not properly addressed and monitored, can perpetuate discrimination and unequal treatment in HR processes. Organizations must ensure that AI systems are developed with fairness, transparency, and accountability, and that potential biases are identified and rectified. Data privacy is another critical concern, and organizations must establish robust protocols to protect employee information and comply with data protection laws. Transparent communication with employees about the usage of AI and the safeguarding of their data is necessary to build trust and alleviate any privacy concerns. Organizations must address the potential fear of job displacement among employees. By transparently communicating the intentions behind AI adoption and emphasizing its role in enhancing HR processes rather than replacing jobs, organizations can alleviate concerns and provide opportunities for upskilling and reskilling. This proactive approach ensures that employees are prepared for new roles that emerge as a result of AI integration, fostering a positive work environment and supporting long-term organizational success.

References:

1. Aaker, J. L., & Maheswaran, D. (2018). The power of proactive chat: How quick, convenient, and constant interaction impacts consumer intentions and perceptions. Journal of Marketing, 82(6), 103-121.
2. Aspris, A., Malliaros, F. D., Redi, M. M., Papalexakis, E. E., & Vazirgiannis, M. (2020). DEPKNN: A differentially private algorithm for community discovery. IEEE Transactions on Knowledge and Data Engineering, 32(12), 2281-2294.
3. Ayyagari, R., Grover, V., & Purvis, R. (2020). Examining the impact of chatbot quality on user engagement. Journal of the Association for Information Systems, 21(3), 665-693.
4. Chowdhury, E. K. (2024). Examining the benefits and drawbacks of social media usage on academic performance: a study among university students in Bangladesh. *Journal of Research*

in Innovative Teaching & Learning, 1-17, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/JRIT-07-2023-0097

5. Chowdhury, E. K. (2023). Is the Application of Blockchain Technology in Accounting Feasible? A Developing Nation Perspective. In Abedin, M.K., Hajek, P. (eds.) *Cyber Security and Business Intelligence Innovations and Machine Learning for Cyber Risk Management* (pp. 46-64). Routledge. https://doi.org/10.4324/9781003285854

6. Chowdhury, E. K., & Humaira, U. (2023). The Russia–Ukraine conflict and investor psychology in financial markets. *Economic Affairs*, *43*(3), 388-405. https://doi.org/10.1111/ecaf.12596

7. Chowdhury, E. K., & Humaira, U. (2023). Transformation of investor attitude towards financial markets: A perspective on the Russia–Ukraine conflict. *International Social Science Journal*. 1–23. https://doi.org/10.1111/issj.12470

8. Brynjolfsson, E., & McAfee, A. (2017). The business of artificial intelligence. Harvard Business Review, 95(1), 62-72.

9. Di Milia, L., Vuori, T., & Andersen, H. (2017). High-performance work systems and work engagement: Investigating the role of organizational justice from the job demand–resources perspective. Human Resource Management Journal, 27(1), 111-129.

10. Chowdhury E.K, & Khan I.I. (2023). Reactions of Global Stock Markets to the Russia–Ukraine War: An Empirical Evidence, *Asia-Pacific Financial Markets*, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1007/s10690-023-09429-4

11. Chowdhury, E. K. (2023). Do weather patterns effect investment decisions in the stock market? A South Asian perspective, *Journal of Asset Management*, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1057/s41260-023-00334-z

12. Chowdhury, E. K. (2021). Financial accounting in the era of blockchain-a paradigm shift from double entry to triple entry system. Available at SSRN 3827591. http://dx.doi.org/10.2139/ssrn.3827591

13. Chowdhury, E. K., Stasi. A. & Pellegrino. A. (2023). Blockchain Technology in Financial Accounting: Emerging Regulatory Issues. *Review of Economics and Finance*. 21 (1), 862-868. https://refpress.org/ref-vol21-a94/

14. Chowdhury, E. K., & Abdullah, M. N. (2023). Gauging Demand for Cryptocurrency over the Economic Policy Uncertainty and Stock Market Volatility. *Computational Economics*, 1-19. https://doi.org/10.1007/s10614-023-10423-1

15. Abdullah, M.N., Chowdhury, E.K. & Tooheen, R.B. (2022). Determinants of capital structure in banking sector: a Bangladesh perspective. *SN Bus Econ.* 2, (190). https://doi.org/10.1007/s43546-022-00370-8

16. Chowdhury E.K, Khan I.I, Dhar B.K. (2021). Catastrophic impact of Covid-19 on the global stock markets and economic activities. *Business & Society Review*, 127 (2), 437-460. https://doi.org/10.1111/basr.12219

17. Chowdhury E.K, Khan I.I, Dhar B.K. (2023). Strategy for implementing blockchain technology in accounting: Perspectives of stakeholders in a developing nation. *Business Strategy & Development,* 6 (3), 477-490. https://doi.org/10.1002/bsd2.256

18. Chowdhury, E, K., & Islam, A. (2017). Role of Foreign Direct Investment in the Stock Market Development of Bangladesh- A Cointegration and VAR Approach. *The Bangladesh*

Accountant, April-June, 2017, 63-74. The Institute of Chartered Accountants of Bangladesh. https://tinyurl.com/y8hs2paf

19. Chowdhury, E. K (2021). Does Internal Control Influence Financial Performance of Commercial Banks? Evidence from Bangladesh. *South Asian Journal of Management*, 28(1), 59-77. https://tinyurl.com/59nr5axm

20. Chowdhury, E. K. (2012). Impact of inflation on bank lending rates in Bangladesh. Journal of Politics and Governance, 1(1), 5-14. https://tinyurl.com/26y2pw6y

21. Chowdhury, E. K. (2012). The Impact of Merger on Shareholders' Wealth. *International Journal of Applied Research in Business Administration and Economics*, 1(2), 27-32. https://tinyurl.com/ycxt59vz

22. Chowdhury, E. K. (2016). Investment Behavior: A Study on Working Women in Chittagong. *Premier Critical Perspective*, 2 (1). 95-109. http://digitalarchives.puc.ac.bd:8080/xmlui/handle/123456789/67

23. Chowdhury, E. K. (2017). Functioning of Fama-French Three- Factor Model in Emerging Stock Markets: An Empirical Study on Chittagong Stock Exchange, Bangladesh. *Journal of Financial Risk Management*, 6(4), 352-363. https://doi.org/10.4236/jfrm.2017.64025

24. Chowdhury, E. K. (2017). Measuring the Effect of Macroeconomic Variables on the Stock Market Return: Evidence from Chittagong Stock Exchange. *AU-International e-Journal of Interdisciplinary Research*, 2(2), 1-10. http://www.assumptionjournal.au.edu/index.php/eJIR/article/view/4227

25. Chowdhury, E. K. (2021). Prospects and challenges of using artificial intelligence in the audit process. In Abedin, M.Z., Hassan, M.K., Hajek, P. (eds.) *The Essentials of Machine Learning in Finance and Accounting* (pp. 139-155). Routledge. https://tinyurl.com/4stz7ycj

26. Chowdhury, E. K. (2022). Disastrous consequence of coronavirus pandemic on the earning capacity of individuals: an emerging economy perspective. *SN Bus Econ.* 2(153). https://doi.org/10.1007/s43546- 022-00333-z

27. Kasemsap, K. (2019). Evaluating the influence of human resource management practices on workers' motivation and performance in the hotel industry. Journal of Asian Finance, Economics and Business, 6(3), 141-150

28. Chowdhury, E. K., & Abedin, M. Z. (2020). COVID-19 effects on the US stock index returns: an event study approach. Available at SSRN 3611683. http://dx.doi.org/10.2139/ssrn.3611683

29. Chowdhury, E. K., & Begum. R. (2012). Reward Management as Motivational Tool in Various Industries in Bangladesh: An empirical study. *International Journal of Contemporary Business Studies*, 3(11), 22-34. https://tinyurl.com/3vzu9cu8

30. Chowdhury, E. K., & Chowdhury, G. M. (2014). Applicability of Prediction Techniques in the Stock Market-A Chittagong Stock Exchange Perspective. *International Journal of Advanced Information Science and Technology*, 32(32), 126-136, DOI:10.15693/ijaist/2014.v3i12.124-134

31. Chowdhury, E. K., & Chowdhury, R. (2017). Online Shopping in Bangladesh: A Study on the Motivational Factors for Ecommerce that Influence Shopper's Affirmative Tendency towards Online Shopping. *South Asian Journal of Marketing & Management Research*, 7(4). 20-35. DOI:10.5958/2249-877X.2017.00019.4

32. Chowdhury, E. K., & Chowdhury, R. (2022). Empirical research on the relationship between renewable energy consumption, foreign direct investment and economic growth in South Asia. *Journal of Energy Markets*, 15(2). 1-21, https://DOI:10.21314/JEM.2022.01

33. Chowdhury, E. K., & Chowdhury, R. (2023). Role of financial inclusion in human development: Evidence from Bangladesh, India and Pakistan. *Journal of the Knowledge Economy*, 1-26. https://doi.org/10.1007/s13132-023-01366-x

34. Chowdhury, E. K., & Nahar, S. (2017). Perceptions of Accountants toward Sustainability Development Practices in Bangladesh. *Journal of Management and Sustainability*,7(3), 112-119. doi:10.5539/jms.v7n3p112

35. Chowdhury, E. K., & Reza, T. (2013). Diagnostic Study on Interactive Ads and Its Response towards the FM Radio. *International Journal of Research in Commerce, IT & Management*, 3(2), 36-41. https://tinyurl.com/5n8huanv

36. Chowdhury, E. K., Abdullah, M. N., & Tooheen, R. B. (2021). Role of information and communication technology in economic progress and increasing demand for renewable energy: evidence from China and India. *Asian Journal of Technology Innovation*, 30(3), 651-671. https://doi.org/10.1080/19761597.2021.1961090

37. McKay, W. J. (2020). Chatbot technology: Advancements and applications for healthcare. Social Sciences, 9(8), 142.

38. Munir, H. A., Luqman, M., & Riaz, H. (2020). Artificial intelligence and machine learning algorithms for competency management in human resource. Future of Social Sciences and Humanities Journal, 3(1), 33-47.

39. Chowdhury, E. K., Dhar, B. K., & Stasi, A. (2022). Volatility of the US stock market and business strategy during COVID-19. *Business Strategy & Development*, 1–11. https://doi.org/10.1002/bsd2.203

40. Chowdhury, E. K., Dhar, B. K., Gazi, M., & Issa, A. (2022). Impact of Remittance on Economic Progress: Evidence from Low-Income Asian Frontier Countries. *Journal of the Knowledge Economy*, 1-26. https://doi.org/10.1007/s13132-022-00898-y

41. Chowdhury, E. K., Dhar, B. K., Thanakijsombat, T., & Stasi, A. (2022). Strategies to determine the determinants of financial performance of conventional and Islamic commercial banks: Evidence from Bangladesh. *Business Strategy & Development*, 1–19. https://doi.org/10.1002/bsd2.207

42. Chowdhury, E.K. (2018). An Assessment of Return Spillover Among Selected Stock Markets in SAARC Countries. *South Asian Journal of Management*, 25 (1), 51-63. Association of Management Development Institutions in South Asia. https://tinyurl.com/y2bd39tk

43. Chowdhury, E.K. (2018). Does Foreign Direct Investment Stimulate Economic Progress of a Developing Country? Empirical Evidence from Bangladesh. *CIU Journal*, 1 (1), 71-86. Chittagong Independent University. https://tinyurl.com/3scz3jzh

44. Chowdhury, E.K. (2019). An Empirical Study of Volatility in Chittagong Stock Exchange. *CIU Journal*, 2 (1), 19-38. Chittagong Independent University. https://tinyurl.com/3w6k89k8

45. Pan, Y., & Froese, F. J. (2023). An interdisciplinary review of AI and HRM: Challenges and future directions. Human Resource Management Review, 33(1), 100924.

46. Chowdhury, E.K. (2019). Transformation of Business Model through Blockchain Technology. *The Cost and Management*, 47(5), 4-9. The Institute of Cost and Management Accountants of Bangladesh. https://tinyurl.com/bdz4ns7t

47. Chowdhury, E.K. (2020). Catastrophic Impact of Covid-19 on Tourism Sector in Bangladesh: An Event Study Approach. *The Cost and Management*, 48(4), 43-52. The Institute of Cost and Management Accountants of Bangladesh. https://tinyurl.com/ccu6mkbx

48. Chowdhury, E.K. (2020). Is Capital Market Integration among the SAARC Countries Feasible? An Empirical Study. *Eurasian Journal of Business and Economics*, 13(25), 21-36. https://doi.org/10.17015/ejbe.2020.025.02

49. Chowdhury, E.K. (2020). Non-Performing Loans in Bangladesh: Bank Specific and Macroeconomic Effects. *Journal of Business Administration*, 41(2), 108-125. University of Dhaka. https://tinyurl.com/54f5pexw

50. Prikshat, V., Islam, M., Patel, P., Malik, A., Budhwar, P., & Gupta, S. (2023). AI-Augmented HRM: Literature review and a proposed multilevel framework for future research. Technological Forecasting and Social Change, 193, 122645.

51. Chowdhury, E.K. (2020). Volatility in Cryptocurrency Market–Before and During Covid-19 Pandemic. *CIU Journal*, 3(1), 69-86. Chittagong Independent University. https://tinyurl.com/mr3djzcn

52. Chowdhury, E.K. (2022). Strategic approach to analyze the effect of Covid-19 on the stock market volatility and uncertainty: a first and second wave perspective, *Journal of Capital Markets Studies*, 6(3), 225-241. https://doi.org/10.1108/JCMS-05-2022-0015

53. Chowdhury, E.K. (2023). Integration of Artificial Intelligence Technology in Management Accounting Information System: An Empirical Study. In: Abedin, M.Z., Hajek, P. (eds) Novel Financial Applications of Machine Learning and Deep Learning. International Series in Operations Research & Management Science, vol 336. Springer, Cham. https://doi.org/10.1007/978-3-031-18552-6_3

54. Chowdhury, E.K., & Rozario, S. O. (2018). Impact of Attitude and Awareness of Investors on their Investment Behavior- A Study on Bangladesh Stock Market. *The Bangladesh Accountant*, July- September, 81-89. The Institute of Chartered Accountants of Bangladesh. https://tinyurl.com/4av6swas

55. Chowdhury, EK (2020). India's NRC, CAA may take Bangladesh closer to China. *Asian Regional Review*, Diverse Asia, Seoul National University Asia Center, 3(2). https://diverseasia.snu.ac.kr/?p=4525

56. Chowdhury, M.R.A., & Chowdhury, E. K. (2010). Estimation of Stock Market Risk-A Value at Risk Approach. *The Cost & Management*, 38(4), 22-27. https://tinyurl.com/4ax978ud

57. Chowdhury, M.R.A., Chowdhury, E. K., & Chowdhury, T. U. (2015). Application of Capital Asset Pricing Model: Empirical Evidences from Chittagong Stock Exchange. *The Cost & Management,* 43(03), 38-44. https://tinyurl.com/bddv24cy

58. Güngör, Z. (2019). Applicant selection in human resource management process: A performance classification approach based on artificial intelligence. Information Systems and e-Business Management, 17(3), 597-618

59. Rani, N., Muthusevan, S., & Begum, S. (2020). Artificial intelligence in recruitment: A systematic literature review. Technological Forecasting and Social Change, 153, 119760.

60. Zampara, K., Papalexandris, A., & Nikolaou, I. (2020). ResumED: Resume evaluation system: The inclusion of artificial intelligence in the early stages of personnel selection. International Journal of Human Resource Management, 31(18), 2400-2423.

61. Hinge, P., Salunkhe, H., & Boralkar, M. (2023, May). Artificial Intelligence (AI) in Hrm (Human Resources Management): A Sentiment Analysis Approach. In International Conference on Applications of Machine Intelligence and Data Analytics (ICAMIDA 2022) (pp. 557-568). Atlantis Press.