Proc. of Int. Conf. on Intelligence Computing and Information Technology , ICIT

Comprehensive Assessment of Online Business using Artificial Intelligence for HRM Processes

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***Abstract*—The present condition of Human Resource Management (HRM) and the influence of Artificial Intelligence (AI) on it during the previous several decades are examined in this article. To give concrete proof of the turmoil AI has produced in several industries and the influence it can have on online business recruiting if multinational firms adopt it during bulk-hiring. The purpose of this research is to determine how far firms have gone using AI in areas like recruiting and culling, corporate training, performance management, and employee motivation. The Online Research Hypothesis Questionnaire (ORHQ) was developed to assemble and evaluate data for the dissertation. The purpose of the analysis is to investigate digital natives' opinions on the effective integration of an AI-HRM system. Empirical evidence is that AI offers prospective solutions for recruiters to streamline the HRM process by automating time-consuming ongoing procedures such as application human sourcing and screening.**

***Index Terms*— Human Resource Management, Artificial Intelligence, Digital Information Mapping, Decision Making System, Machine Learning.**

I. INTRODUCTION

In today's worldwide culture, established online and offline business practices are being challenged. As emerging technology reduces the globe, businesses must compete on a worldwide basis. A few decades later, online/offline job calls for and recruiting have become widespread, and HR professionals have begun investigating the implicative insinuations and benefits of emerging technologies in HRM. Nowadays, electronic Recruitment (e-Recruitment) looks more experimental, with several smart ways for engendering a seamless end-user experience that assists applicants with more successfully choosing the appropriate role. Despite being an application of Information Technology (IT), Artificial Intelligence (AI) is a unique and innovative field of research and technology (Loebbecke & Picot, 2015). This paper will discuss AI and its applications in HRM. The topic is current since AI adoption is increasing and will continue to rise in the following decades, with most HR professionals adopting AI in some form in their daily job. This is demonstrated by the actual position of literature, which has been published by specialists in AI-HRM.

Thus, it is vital to explore the use of AI in e-Recruitment understand how the computer technologies work in order to avoid disproving what AI is exceptional for – balanced hiring. AI has permeated the globe, creating cyclopean opportunities to transform the way people work in a wide range of employment fields, including HRM and, in particular, Recruitment. Based on the preceding, the issue that this exploration seeks to resolve is how AI

Grenze ID: 02.ICIT.2022.6.514

may be used effectively in HRM from the viewpoints of both businesses and digital natives as applicants. Current research centers on the profits of utilizing AI-HRM, but here are a few recommendations for doing so successfully. As an empirical outcome, the purpose of this paperwork is to present a context for the successful incorporation of AI into e-Recruitment procedures from both an organization and an aspirant's perspective (Tiwari et al., 2021).

The demand to use AI-HRM shoots from a wish to minimize human error and biases that lead to poor decision-making performance/put organizations at risk of intolerance and save time and money by automating the process. As previously said, algorithms are designed to foresee, and Recruitment is primarily a foresight issue that attempts to determine which persons will be suitable for the role (Shanafelt et al., 2015).

To aid in justifying the investigation, the following Online Research Hypothesis Questionnaire (ORHQ) was created. The study's purpose is to put an existing ORHQ through its paces in terms of AI-based software and HRM practices. To lead the research problem, the following ORHQ looks suitable for developing a model for successfully integrating AI-HRM practices.

ORHQ 1. What is the current state of AI research in conventional HRM?

ORHQ 2: How will AI impact the traditional based HRM e-Recruitment process?

ORHQ 3: The primary goal of this inquiry is to determine the function of an AI-based online tool in attracting top business talent.

ORHQ 4: To assess the use of an AI-based online tool in the HRM process, which is the major e-Recruitment procedure, and the cost of adopting such systems.

ORHQ 5: To determine the effect of AI-based tools on recruiters' online/offline jobs.

II. Related Work

In most businesses, Recruitment and culling are an ongoing and consequential occurrence. "e-Recruitment is the progression of attracting and inspiring latent workers to apply for a position, whereas culling is the method of constructing fair and pertinent valuations of candidates' metiers and limitations with the purpose to rent them," HRM is intimately related to a company's market magnificence (Vrontis et al., 2021). Hiring the best fit from the aptitude pool is frequently tricky for many ecumenical organisations. The recruiting process, as the point of entry for personnel, is critical to boosting organisational survival and profitability in the astronomically competitive and unstable business ecosystem. Organizations frequently have a vested interest in other organisations' recruiting actions. According to this, the most critical structural difficulty at the organisational level today is the HRM of the best-qualified personnel while still satisfying standard job requirements. It is critical to be wary of judgments made at the early phases of recruiting since they will influence the organization's overall strategic long-term goal (Kaushal et al., 2021).

Many definitions of HRM have been given by various philosophers; nonetheless, the bulk of them complement one another. According to one definition, HRM is the process of obtaining and developing a qualified workforce to aid the organisation reach its targets, pursuit, vision, and other objectives (Iles et al., 2010). Another way to put it is that HRM is an approach to HRM that tries to keep a workforce that is both capable and devoted by employing several current cultural, structural, and people methods to provide the business with a competitive edge. For the purposes of this study, HRM will be defined as the process of developing and maintaining incipient skills, capacities, and competencies in a company's workforce via the use of various HRM strategies (Bello-Pintado, 2015).

Incipient technological advancements and rapid technological transformations need an incipient mindfulness-based approach to HRM. e-Recruitment HRM has taken one step further with the convivial media screening of applicants, which allows for a wealth of vital data about the individual as well as brief background verification ("Using Natural and Artificial Intelligence in the Talent Management System," 2019a). However, the underlying difficulty with the acceptability of AI skills is the *'erudition access conundrum,'* which holds that there may be a lack of relevant data while formulating a decision on any critical employment circumstances.

Traditional human resource management lacks a preconceived model for how it should be carried out; instead, it is characterized and postulated in many ways by many philosophers. According to the author, there are two views on traditional HRM: the organizational perspective and the job-seeker perspective. However, few models refer from one point of view to another (Maria, 2021). As a result, it is vital to maintain the viewpoint from which it is optically detected in mind when studying HRM. Several mundane levels may be visually studied among the various HRM models offered. Traditionally, the initial process is for the company to determine whether an employment vacancy needs to be filled, followed by an analysis of the job opening, a description of the task, and, of course, a selected person.

AI offers appropriate content or items to an end-user based on their previous purchasing behaviour in marketing. Companies can use cookies to monitor their clients' virtual footprints and suggest a particular product, or similar ones, on other online platforms, such as the social networking site Facebook (Wang & Lin, 2020). Marketers may now customize their interactions with their client's appreciations of AI. A notable example is how people's web search history may be saved and used in marketing to that consumer. In his post, "*What's the state of your status quo?"* Dave Blanchard expresses that AI's speech recognition skills and search engines have improved existing vital goods, making them dominant, alluding to more conventional search techniques.

AI is a new area of IT that is rapidly expanding and gaining popularity. AI software is adaptable and can automate jobs that do not need high levels of cleverness, owing to algorithms, which are a systematic approach for solving a problem or achieving a goal. Algorithms and Machine Learning (ML) implementations can quickly absorb data, find patterns, optimize, and forecast trends (Gupta et al., 2021). The systems can grasp verbalization, assess mood, personality, or truthfulness through pattern matching, detect visuals that allow them to learn, predict probable events or repercussions, and then choose based on various criteria. Although ML cannot yet replicate human cognitive skills, sophisticated computers may do elementary learning, decision making, and reasoning (Saxena et al., 2021).

Furthermore, LinkedIn Aptitude Solutions 2020 recognizes six distinct recruiting procedures: sourcing, screening, nurturing, scheduling, engaging, and interviewing candidates. The finding does not state that these stages remain sequential or overlying but create what other providers have said verbally, and it may be expected that the actions are sequential in the provided sequence (Tewari & Pant, 2020). Likewise, various firms have varied perspectives on HRM. This might be due to differences in recruitment strategies between astronomically large and microscopic businesses. Larger firms are more tolerant of employing employees from inside their existing workforce and utilize complete HRM. In contrast, smaller organizations rely on basic methods (A study on emerging trends in social media - ProQuest, n.d.).

III. Advantages of Artificial Intelligence in HRM

This section fixates on current HRM procedures that differ from conventional HRM in that AI technology is utilized. Because the working environment constantly transmutes and technology is expanding, HR accommodations must change concurrently. Traditional and antecedents employed HR procedures, as anteriorly noted, may not be as efficient now, and they may better accommodate older generations than millennials ("Attracting and recruiting quality talent: firm perspectives, Emerald Insight," 2020). The incorporation of AI technology with traditional procedures dramatically alters them. The article "How AI Will Transform HRM" describes how AI-powered solutions purport to enable HR to make decisions predicated on computer presages. All HR data, such as personnel details, employment records, and salary, are victualled to the AI machine, which utilizes the information to make HRM operations more facile to manage (Tiwari et al., 2021).

The interpretative method was deemed the most appropriate for this study since it aims to understand how organizations and individuals participate in an e-Recruiting process and how technology integration affects them. In addition, Interpretivism argues for the importance of knowing the environment in which research is conducted to comprehend, evaluate, and interpret the evidence gathered (Hughes et al., 2019). Therefore, there are two primary research strategies that one might use, namely qualitative and quantitative.

The purposive sampling technique has been obtained for this research. The questionnaire has been disseminated by snowball sampling technique to obtain professional insights from either Human Resource Professionals, Administrative Professionals, or Professionals with Technical backgrounds. The objective of using both the sample strategies was to gain perspectives from experts living in various segments of the world. The primary goal was to obtain insight into AI application in an administrative environment and assess its overall impact on industrial performance (Mwaffo et al., 2018). While studying the research onion, the researchers' primary focus has been on culling the set of philosophies for concrete research. There are also specific research methodologies incorporated in the research onion, referred to as the Deductive Approach and the Inductive Approach. Thus, the research onion has six layers, which comprise philosophical views, a varied range of methodologies, distinct groups of tactics, levels of culls, periods, and several techniques and processes. The time horizons section illustrates cross-sectional and longitudinal time horizons. There are mono methods, mixed methods, and multi-methods in the case of a cull (Know Yourself and Know Your Enemy on JSTOR, 2014), (Munoz Mata et al., 2014), (Zeshan, 2019), K. Fiok *et al*. and (Menzies et al., 2006)).

The conceptual framework shown in figure-1, predates the literature review above has examined the bond between Recruitment and artificial perspicacity. This conceptual framework is built predicated on the organizational perspective, as the applicant's perspective literature is sparse. The abstract framework around AI

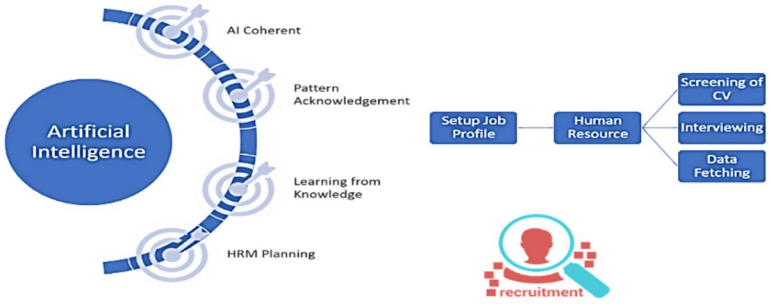

Figure 1: Conceptual framework for how AI-HRM can be utilized in Recruitment from an organizational perspective

is built predicated on the twigs of AI. This conceptual framework is developed based on the organizational perspective, as the literature from the candidate's perspective is sparse. The conceptual framework around AI is predicated on the branches of AI ((Seliya & Khoshgoftaar, 2007), ("Using Natural and Artificial Intelligence in the Talent Management System," 2019b), (Shanafelt et al., 2015), (Lin et al., 2015), (Crossley et al., 2016), and (Fung & Mangasarian, 2001)).

IV. PHILOSOPHY OF RESEARCH

With reverence to carry out research, philosophy is one of the essential research aspects impacting present research contributions. These research philosophies, such as Realism-Interpretivism-Positivism (RIP), can be utilized in any surmised research (Figure 2). In the current study, positivism research conception has been culled for understanding the usefulness of modern Information Technologies like AI-HRM. With the assistance of positivism, the researcher can accumulate a congruous genuine dataset about modern IT and HRM ((Asif et al., 2019), (Bahlerao & Ingle, 2011), (Bulteau et al., 2021), (Asif et al., 2020), and (Tobon-Mejia et al., 2012).

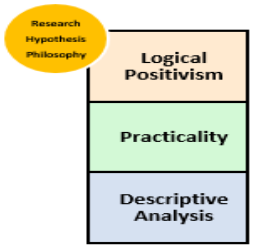

Figure 2: Research Idea

As a result, the value of AI-HRM may be appreciated. On the other hand, RIP concepts cannot avail the researcher in accumulating original datasets in AI-HRM areas; because both conceptions are not predicated on veridical facts, the study conclusion cannot be procured by RIP. Data analysis necessitates data that is predicated on genuine-world outcomes. RIP, we are unable to give such an empirical study. As a result, academics will have difficulty concluding AI-HRM. For scientific testing in physical and natural science, RIP is suggested. The goal is to engender a connection between cause and consequence. This marginal study necessitates a high calibre of impartiality, and the data will be amassed utilizing ORHQ. As a result, RIP is the best option for this categorical research.

V. IMPLICATION OF AI IN HRM

a. What can be done to alleviate HRM quality? First, HRM professionals must sift through a colossal number of candidates to cull the best candidate. AI compels HRM to accumulate more data on each applicant and, as a result, to evaluate HRM more efficaciously.
b. We gain better analytics integration. For example, candidates may be weeded out predicated on their aptitudes, and AI algorithms can locate the right job for them more precisely than humans. As a result, productivity elevates, and applicants are more incentivized to ameliorate their facilities.
c. An indirect implicative insinuation preserves time. AI analyses astronomically massive quantities of data in a matter of seconds and engenders clear conclusions that HRM may use to make calls. Mazuma and resources are conserved with AI optimization techniques.

d. Conclusively, AI can eschew human prejudices and promote more equitable advancement, according to AI implements business. However, as we shall describe later, to achieve a 100% fair procedure, the process must meet specific requisites and consider a wide range of obligations (Figure 3 (a) and Figure 3 (b)).

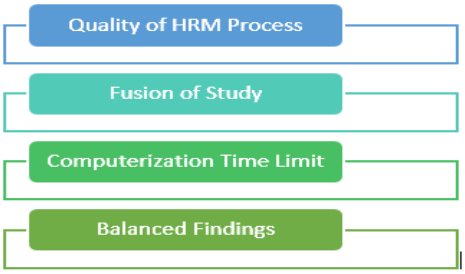

Figure 3 (a). The Analysis of the HRM by AI

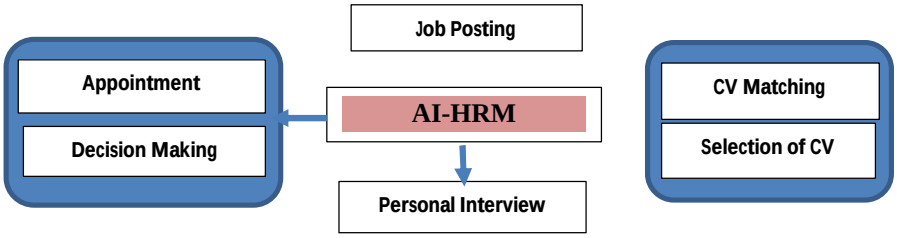

Figure 3 (b). Significant features of AI-HRM

VI. Empirical Analysis

The ORHQ groups consisted of 100 participants and five online interviewers who met in person. The ORHQ groups were reiterated five times with different users each time. Regardless of the small sample size, capacity was procured in the ORHQ groups in the second group. Theoretical saturation denotes by no means incipient paramount information accumulated, implicatively insinuating that the conclusions were all prodigiously kindred: all ORHQ groups had very kindred revelations and insights. Table 1 summarises the ORHQ data of the individuals. This ORHQ group interview aims to visually perceive how digital AI natives perceive AI's inclusion into Recruitment HRM tasks. We encourage you to speak with each other because this is an ORHQ group interview. The online interview will be recorded in real-time. Any computer programs and systems, software/smart devices described as savvy, intensely intellective, self-learning/redressing will be classified as AI. This refers to smart devices/programs that can run and evolve independently of human involvement.

Table 1: Facts of ORHQ Participants'

User Group	Age	Gender
10	20-22	Male
20	20-22	Female
30	23-25	Male
40	23-25	Female
50	25-27	Male
60	25-27	Female
70	25-27	Female
80	27-28	Female
90	28-29	Male
100	29-30	Male

VII. HOW CAN AI-HRM BE IMPLEMENTED IN BUSINESS

We suggest the following criteria for the successful deployment of AI technologies in HRM, based on the contributions of previous literary works.

a) **Employee Potentiation:** Once you have the product and trained staff, workers should be empowered to use AI if they decide it is a good fit. Potentiation begins with the preceding linguistic phrase. The system should not make people feel obsolete but instead encourage them. We can only obtain the most value from a human-computer collaboration: staff must be potentiated to think critically and uncover the problems that AI can fine-tune, but humans must still make the choices. The use of AI tools allows workers to grow in the most personal aspect of HRM and make better decisions.
b) **Humans-In-The-Loop:** Humans must select which variables must be gathered based on the recruiter's preferences. One of the difficulties with using AI is that the machine does not grasp cultural differences. To adjust the algorithm to account for this, a multinational corporation must supply ecumenical data from many locations to the AI implementation to make the best suggestions.
c) **Data Analysis:** Data must be evaluated regularly to ensure no elements lead to undesirable consequences.
d) **Transparency:** It implies informing employees about the system's objectives, suggestions, data used, variables impacting choices, and desired precision.

VIII. ANALYSIS AND DISCUSS IMPLICIT INSINUATION

There are a variety of implicative insinuations around the use of AI in recruiting, ranging from the advantages and risks to how it will affect Recruitment in the following decades. The most significant hazards of AI recruiting implements, as previously stated, are the possible bad results owing to poor programming or implementation. We could get positive implicative insinuations if we control for these harmful effects. Only 23% of HRM professionals are now using AI to its full potential in 2020; however, by 2021, 80% anticipate doing so.

IX. ANALYSIS OF RESPONDENTS' ATTITUDES TOWARDS AI IN HRM AND FUTURE TRENDS

This component of the analysis will be focused on determining the replication of HRM professional cognate to current and future AI use in HRM. Data are relevant to the preliminary AI-HRM, and the background of recruiters has been gathered in the preceding sections. All of the HRM specialists who answered a question concerning the quality of AI-based HRM implementation responded positively. This data is vital to collect since it will allow the researcher to understand the scope of AI-HRM implementation (Figure 4).

ORHQ 1: How many phases of the employment process do you use AI-HRM implementations like this?
ORHQ 2: To what extent do you believe AI-HRM implementations help identify the best candidate for the job?
ORHQ 3: Do you believe that using AI in employment methods is the way of the future?
ORHQ 4: Do you believe AI is assisting HRM in any way?
ORHQ 5: Are you attracted by optically detecting AI implementation for HRM procedures today or in the future?

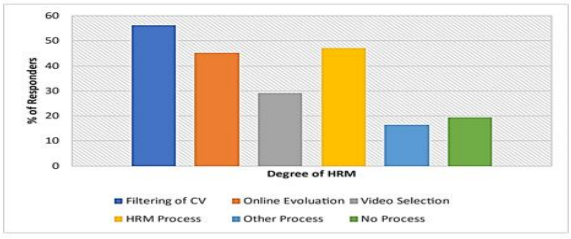

Figure 4. Degree of AI-HRM Recruitment Process

The ORHQ form highlighted many HRM practices that are often used. 52.5 % use AI-based technology in the first step of hiring, namely, resume shortlisting. This replication is reliable with literature, which asserts that many firms deploy AI technology to filter candidates since they get many resumes for a single job description. 40% of experts stated verbally that they use AI technology for ORHQ the whole HRM. 25% of respondents stated orally that they use such IT for video ORHQ. This replication is also in agreement with the researcher's cited literature. 12.5 % stated that they use such technologies for other HRM purposes (Figure 5).

Figure 5. Impact of AI-HRM to Support Job

When defendants were asked how long they agree that AI may be used to identify the best match for their firm, 27.5 % said they strongly agree, and 27.5 % said they are numb to the fact. AI is a valuable tool for selecting the most excellent match for their companies, according to 20% of respondents (Figure 6). This question elicited mixed reactions from respondents. In the following questions, respondents might clarify their opinion more clearly.

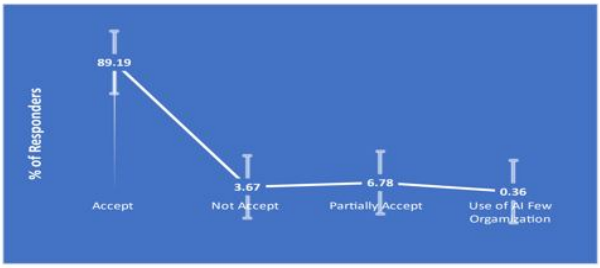

Figure 6. AI-HRM in Future Prediction

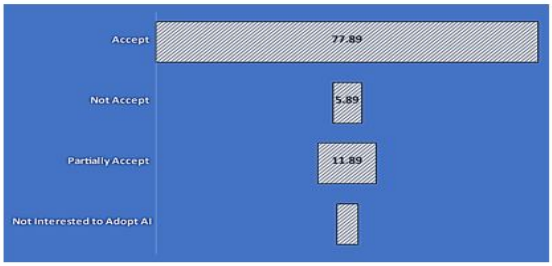

Figure 7. Time Computation to Migrated AI-HRM

85 % of the candidates queried had no expertise in HRM but worked in both technical teams/administrative boards where they are actively involved in policy/decision-making, circumventing mass recruiting initiatives (Figure 7).

The professionals replied positively when asked if IT had expedited the workplace regardless of their inceptions. 62% of those polled were blissful about the upheaval. 15% of those polled felt remotely optimistic. 8 % were unsure if IT had transmuted anything, while another 8 % replied negatively, claiming that it had legitimately incremented the intricacy of the obligations, making them more time-consuming. The remaining 8% were sceptical if there had been any depreciation in time use.

Figure 8. AI-HRM usage to High Extend

X. CONCLUSION AND FUTURE WORK

Inculcating businesses and individuals about AI can allow them to transition from conventional HRM to a more current one that includes the utilization of AI. Implementing AI into the recruiting process, categorically when doing monotonous manual activities, will be accomplished through expeditious-limited data analysis and ML. It is critical to discover the possibilities in HR tasks that cumulate with AI, concretely in magnetizing aptitudes and assessment applicants, to truncate re-hiring costs during bulk-hiring efforts. It is critical to perpetuating researching the consequences and implicative insinuations AI in recruiting may provide and the veridical

advantages because AI is advancing at an expeditious pace, which implicatively insinuates fluctuations in its use. To summarise, while AI has intriguing applications in the recruiting and culling processes, it nonetheless raises major worries about its utilization. These worries and challenges may be addressed in the future, and considerably more potent, cost-efficacious, and safe AI systems will be offered in the sector.

Much research is required to develop the framework presented in this paper. First, it might be evaluated quantitatively how AI-HRM culls have affected its profitability and turnover in monetary terms. Second, because there are trust issues with AI, job seekers' noetic conceptions and experiences with AI-predicated HRM should be investigated to understand the matter better. Third, this paper investigated the biases and prejudices that occur in HRM. Consequently, it may be explored if AI has been able to abstract gender stereotypes and discrimination among job searchers.

REFERENCES

[1] Asif, M., Ali, I., Malik, M.S.A., Chaudary, M.H., Tayyaba, S. and Mahmood, M.T. (2019). Annotation of Software Requirements Specification (SRS), Extractions of Nonfunctional Requirements, and Measurement of Their Tradeoff. *IEEE Access*, 7, pp.36164–36176.

[2] Asif, M., Ishtiaq, A., Ahmad, H., Aljuaid, H. and Shah, J. (2020). Sentiment analysis of extremism in social media from textual information. Telematics and Informatics, 48, p.101345.

[3] Attracting and recruiting quality talent: firm perspectives | Emerald Insight. (2020). Rajagiri Management Journal. [online] Available at: https://www.emerald.com/insight/content/doi/10.1108/RAMJ-05-20200016/full/html [Accessed 16 Feb. 2022].

[4] Bahlerao, S. and Ingle, M. (2011). Generalized Agile Estimation Method. International Journal on Advanced Science, Engineering and Information Technology, 1(3), p.262.

[5] Bello-Pintado, A. (2015). Bundles of HRM practices and performance: empirical evidence from a Latin American context. Human Resource Management Journal, 25(3), pp.311–330.

[6] Bulteau, L., Hazon, N., Page, R., Rosenfeld, A. and Talmon, N. (2021). Justified Representation for Perpetual Voting. IEEE Access, 9, pp.96598–96612.

[7] Crossley, S.A., Kyle, K. and McNamara, D.S. (2016). Sentiment Analysis and Social Cognition Engine (SEANCE): An automatic tool for sentiment, social cognition, and social-order analysis. Behavior Research Methods, 49(3), pp.803–821.

[8] Fiok, K., Karwowski, W., Gutierrez-Franco, E., Liciaga, T., Belmonte, A., Capobianco, R. and Saeidi, M. (2021). Automated Detection of Leadership Qualities Using Textual Data at the Message Level. IEEE Access, 9, pp.57141–57148.

[9] Fung, G. and Mangasarian, O.L. (2001). Semi-superyised support vector machines for unlabeled data classification. Optimization Methods and Software, 15(1), pp.29–44.

[10] Gupta, M.L., Bag, S., Gupta, S. and Dhamija, P. (2021). Humanitarian supply chain management: a systematic review and bibliometric analysis. International Journal of Automation and Logistics, 3(2), p.104.

[11] Hughes, C., Robert, L., Frady, K. and Arroyos, A. (2019). Artificial Intelligence, Employee Engagement, Fairness, and Job Outcomes. Managing Technology and Middle- and Low-skilled Employees, pp.61–68.

[12] Iles, P., Chuai, X. and Preece, D. (2010). Talent Management and HRM in Multinational companies in Beijing: Definitions, differences and drivers. Journal of World Business, [online] 45(2), pp.179–189. Available at: https://www.sciencedirect.com/science/article/abs/pii/S1090951609000753 [Accessed 16 Feb. 2022].

[13] Jstor.org. (2014). Know Yourself and Know Your Enemy on JSTOR. [online] Available at: https://www.jstor.org/stable/26634982 [Accessed 16 Feb. 2022].

[14] Kaushal, N., Kaurav, R.P.S., Sivathanu, B. and Kaushik, N. (2021). Artificial intelligence and HRM: identifying future research Agenda using systematic literature review and bibliometric analysis. Management Review Quarterly.

[15] Lin, Y., Descamps, P., Gaud, N., Hilaire, V. and Koukam, A. (2015). Multi-Agent System for intelligent Scrum project management. Integrated Computer-Aided Engineering, 22(3), pp.281–296.

[16] Loebbecke, C. and Picot, A. (2015). Reflections on societal and business model transformation arising from digitization and big data analytics: A research agenda. The Journal of Strategic Information Systems, 24(3), pp.149–157.

[17] Maria, F. (2021). Artificial Intelligence and Hrm: An Empirical Study on Decision-Making Skills of Hr through Ai in Hrm Practices. Annals of the Romanian Society for Cell Biology, [online] 25(6), pp.11568 11578. Available at: https://www.annalsofrscb.ro/index.php/journal/article/view/7671 [Accessed 16 Feb. 2022].

[18] Menzies, T., Chen, Z., Hihn, J. and Lum, K. (2006). Selecting Best Practices for Effort Estimation. IEEE Transactions on Software Engineering, 32(11), pp.883–895.

[19] Munoz Mata, E., A. Munoz Mata, M., Capon, E. and Mejia Miranda, J. (2014). Knowledge Management in Process Improvement and Best Practices Sharing. IEEE Latin America Transactions, 12(3), pp.469 474.

[20] Mwaffo, V., Keshavan, J., L. Hedrick, T. and Humbert, S. (2018). Detecting intermittent switching leadership incoupled dynamical systems. Scientific Reports, 8(1).

[21] Saxena, M., Bagga, T. and Gupta, S. (2021). HR During Covid-19 Era: Study On Recent HR Transformations ThroughTechnological Tools And Trends. [online] IEEE Xplore. Available at:https://ieeexplore.ieee.org/abstract/document/9377167 [Accessed 30 Oct. 2021].
[22] Seliya, N. and Khoshgoftaar, T.M. (2007). Software Quality Analysis of Unlabeled Program Modules With Semisupervised Clustering. IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans,37(2), pp.201–211.
[23] Shahriar, S. (2020). Digital transformation in business and society: theory and cases. Asia Pacific Business Review,pp.1–3.
[24] Shanafelt, T.D., Gorringe, G., Menaker, R., Storz, K.A., Reeves, D., Buskirk, S.J., Sloan, J.A. and Swensen, S.J. (2015). Impact of Organizational Leadership on Physician Burnout and Satisfaction. Mayo Clinic Proceedings, 90(4),pp.432–440.
[25] Tewari, I. and Pant, M. (2020). Artificial Intelligence Reshaping Human Resource Management : A Review. 2020 IEEE International Conference on Advent Trends in Multidisciplinary Research and Innovation (ICATMRI).
[26] Tiwari, P., Pandey, R., Garg, V. and Singhal, A. (2021). Application of Artificial Intelligence in Human Resource Management Practices. 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence).
[27] Tobon-Mejia, D.A., Medjaher, K., Zerhouni, N. and Tripot, G. (2012). A Data-Driven Failure Prognostics Method Based on Mixture of Gaussians Hidden Markov Models. IEEE Transactions on Reliability, 61(2), pp.491–503.
[28] Using Natural and Artificial Intelligence in the Talent Management System. (2019a). International Journal of Recent Technology and Engineering, 8(3), pp.7417–7423.
[29] Valtonen, A. (2020). Diversity, affect and embodiment in organizingMariannaFotaki and AlisonPullen (Eds.) Cham, Switzerland: Palgrave Macmillan, 2019. Gender, Work & Organization.
[30] Vrontis, D., Christofi, M., Pereira, V., Tarba, S., Makrides, A. and Trichina, E. (2021). Artificial intelligence, robotics, advanced technologies and human resource management: a systematic review. The International Journal of Human Resource Management, pp.1–30.
[31] Wang, T. and Lin, J. (2020). Research and application of practice teaching reform of HRM major under the background of AI. 2020 International Conference on Big Data and Informatization Education (ICBDIE).
[32] www.proquest.com. (n.d.). A STUDY ON EMERGING TRENDS IN SOCIAL MEDIA - ProQuest. [online] Available at:https://www.proquest.com/scholarly-journals/study-on-emerging-trends-social-media recruitment/docview/929270262/se-2?accountid=146540 [Accessed 16 Feb. 2022].
[33] Zeshan, F. (2019). CONTEXT-AWARE ONTOLOGY AND WEB SERVICES DISCOVERY FOR DISTRIBUTED EMBEDDED REAL-TIME SYSTEMS. Malaysian Journal of Computer Science, 32(3), pp.186–208.