

The Impact of Artificial Intelligence (AI) in Human Resource Management (HRM)

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Abstract

The purpose of this study is to examine the role of artificial intelligence (AI) in human resource management (HRM). In today's globalised environment, traditional methods of conducting business are being put to the test. There may not be any local competitors at this time, but as technology shrinks the world, firms must compete on a worldwide scale on a regular basis. This means that accepting these new mechanical advances is critical for a company to stay current and maintain a competitive advantage. Employee training, enrolment, representative interactions, and the organization's success are all covered under HRM. People serve as a reservoir of information and skills that each organisation may and should tap into. As a result, matriculation has grown increasingly crucial in recent years for hiring and keeping these types of individuals. The enrollment contact, through which all of this value is gathered, is the way to go because Human Resource (HR) is so vital to the organisation. The enrolling phase used to be longer and more time-consuming, meaning a lot of administrative work for the spotters; but, as online enrolment has become more widespread, this has begun to change. In this paper, the various uses and benefits of using Artificial Intelligence into Human Resource Management are examined.

Keywords: Artificial Intelligence, Human Resource Management, Innovation, Human Intelligence

Introduction

Due to recent creative advances, research has focused on how these two critical aspects of HRM and innovation might be linked. Typically, the focus is on how to employ innovation to make the enrollment process more efficient and fun (Galanaki, Lazazzara and Parry, 2019). For the time being, the focus is on mechanical innovations that aid spotters, and as a result, the interface is becoming increasingly computerised. As a result, it's realistic to assume that the personal touch in enrollment is disappearing (Bondarouk and Brewster, 2016). Baxter (2018) attempts to predict the trends that will control enrolment in 2019 in his paper from 2018. He recommends undertaking a foresight study to avoid some of the guesswork that occurs before recruitment, but he also mentions AI as a tool that will be used when speaking with up-and-comers (Baxter, 2018). This idea focuses on artificial intelligence, which is one of the most recent advancements (AI). The use of AI in HRM was maybe the most remarkable trend among enrolling professionals in 2018. Because AI improves the enrolling process by taking over tedious tasks traditionally managed by human spotters, the application of AI in HRM and enlisting is referred to as "the new HR" (Upadhyay and Khandelwal, 2018).

Artificial Intelligence, according to Tecuci (2012), is a broad term that encompasses a wide range of fields that may be used to a variety of sciences, as well as semantics and philosophy.

Robotics, bots, and programming are all examples of how simulated intelligence can be used (Tecuci, 2012). Artificial intelligence (AI) is a relatively new concept in design and science that has gotten a lot of attention since World War II. The term “artificial intelligence” was first used in 1956. (Stuart and Norvig, 2016). AI as described by Salin and Winston (1992) as a set of processes that enable computers perform tasks that would otherwise need the use of human intelligence’s thinking abilities. According to Nilsson (2005), machines should be able to do a variety of tasks.

Management of Human Resources

A variety of experts have provided many definitions of human asset the board; nonetheless, the vast majority of the definitions complement one another. HRM, according to Schemerhorn (2001), is the process of acquiring and developing a talented workforce to assist the business in achieving its goals, such as its fundamental goal, vision, and various destinations within reach. HRM is also defined as a means of dealing with representative administration determined to maintain a labour force that is both fit and submitted using various methods, such as social, primary, and faculty, to offer the organisation a leg up (Story, 2004). For the sake of this investigation, HRM will be described as a way for learning and sustaining new abilities, capabilities, and skills in an organization’s labour force through the use of various management practises.

HRM practises include appointing new representatives, supervising employees, recruiting employees, and making improvements (Wall and Wood, 2005). The bulk of these procedures place a high priority on retaining new representatives and keeping their performance at a satisfactory level. This is due to the fact that human resources is a unique facet of a business that is always evolving, needing good management by an organisation (Bibi, Pangil and Johari, 2016).

HRM management and maintenance might be argued to have a specific significance within manufacturing businesses, where there is a focus on improvement within manufacturing to gain a relative advantage and better exhibits (Youndt, Snell, Dean and Lepak, 1996). HRM’s role inside an organisation has evolved significantly over the

years, and it is no longer merely used as a method to deal with expenses by different organisations with their operations (Becker and Gerhartin in 1996). Later investigations are looking into HRM as a vital resource for organisations, where workers are the most important resource and how to obtain and manage them plays a major role (Bas, 2012).

Human Resources Management (HRM) Enlistment

Inside enrollment research as part of HRM has grown in recent years, and there is now more accessible research on what enlisting really means for employee behaviour (Taylor and Collins, 2000). Enlistment is defined as the process of locating the best candidates from a pool of applicants who are qualified for a job opening that a business has (Stoilkovska, Ilieva and Gjakovski, 2015). Enlistment is also thought to be a focal point within HRM, as it is those employees who are employed who will be subjected to subsequent HRM procedures (Griepentrog, Harold, Holtz, Klimoski and Marsh in 2012). Newell (2005) agrees, stating that it is critical to have well-trained faculty in organisations, which is satisfied with a viable enlisting and determination measure.

Artificial Intelligence (AI) has been around for a long time and has a wide range of applications, but it is only in the last year that the technology has been further developed and implemented in a government environment (Tecuci, 2012). To grasp the concept of AI, the simplest method is to separate the phrases without the assistance of anyone else and examine each significance. In any event, despite the fact that AI has been around for a longer period of time, there isn’t a single pre-determined interpretation of the concept (Legg and Hutter, 2007).

The precarious thing is that many ways of characterising intelligence exist. Some define AI as the creation of robots, machines, or projects that exhibit intelligent behaviour comparable to that of humans (Tecuci, 2012; Kaplan, 2016). According to Kaplan (2016), intelligence is defined as “the capacity to make suitable assumptions in an ideal design based on restricted information” (p.5). Intelligence can also be defined as the ability to think, plan, have information, adjust to climate, or recover data, among other things (Legg and Hutter, 2007).

The Use of Artificial Intelligence in a Variety of Recruitment Processes

One of the most notable trends among enlisting professionals in 2018 was the application of AI in HRM, according to Upadhyay and Khandelwal (2018). Stuart and Norvig (2016) define data extraction as a cycle in which data and information can be collected by reading a book. Data extraction solutions can leverage AI to automate the cycle of resume scrutiny and data extraction, notably in the registration of new representatives (Kaczmarek, Kowalkiewicz and Piskorski, 2005). As the quantity of job applications has expanded, automated frameworks that position work competitors have been built to speed up the recruiting cycle and can even overpower HR divisions. Because the HR department is usually in charge of physically evaluating job applications, AI-based candidate placement frameworks might make enrollment specialists' evaluation activities more efficient (Faliagka, Ramantas, Tsakalidis and Tzimas, 2012). Artificial intelligence (AI) is used to power the competitor placement framework, and human enrollment specialists offer data to the AI computations, from which they learn about application scoring capacity (Faliagka et al. 2012).

According to Upadhyay and Khandelwal, chat bots are AI-driven enrollment collaborators that supply individual and exceptional association prospects with competitors via messages, instant messages, or the exchange box (2018). To assist selection agents with their obligations, a few PC-based work matchmaking solutions have been developed. Programming that sorts forever is one of these strategies, which can be accomplished out using learning-based methodologies and calculations (Montuschi, Gatteschi, Lamberti, Sanna, and Demartini, 2014). Video conferencing for prospective employee meetings has become a frequent recruiting tool for firms. HireVue has developed an AI-powered video meeting tool.

The Benefits of Recruiting using Artificial Intelligence

According to Dickson and Nusair (2010), the purpose of enrollment frameworks is to make association enrollment interactions easier and more efficient by modernising them. Enrollment

frameworks are designed to make the enlistment process go faster by allowing users to do things like pre-screening and organising resumes, as well as matching resumes to open employment vacancies. Supervisors' attempts to discover qualified candidates for open positions have improved as a result, both in terms of speed and proficiency (Dickson and Nusair, 2010). Similarly, Dickson and Nusair (2010) discovered that incorporating AI into the enrollment process allows organisations to reach a bigger applicant pool with less administrative effort. Apart from that, AI may skim through social media material and make conclusions based on it. As a result of AI frameworks, enrollment specialists can now verify the personality qualities of job candidates prior to a new hire screening (Faliagka et al. 2012). AI is unbiased, and resumes are thoroughly verified, according to Upadhyay and Khandelwal (2018), guaranteeing that all candidates are given an equal chance. AI frameworks provide input on the skills and talents of up-and-comers who have been passed over for a job, allowing these competitors to advance in the future. (Upadhyay and Khandelwal, 2018; Upadhyay and Khandelwal, 2018).

Difficulties in Recruiting using Artificial Intelligence

Despite research showing that new innovation and big data make HRM more effective and precise (Zang and Ye, 2015), some individuals believe that human asset investigation can be a fleeting pattern if innovation change does not figure out how to become a part of the executive dynamic (Rasmussen and Ulrich, 2015). Home security and the way information is maintained and broken down are two of the most noteworthy issues that AI-based enlistment implies. It is practically hard for associations to function successfully without converting incoming concepts, according to Martincevic and Kozina (2018). The ability of an organisation to respond to innovation, in general, impacts how successfully it can reach market intensity. According to previous study, the transition of a new invention provides a few advantages in terms of improved execution (Martincevic and Kozina, 2018). This declaration displays the adequacy to the point where AI instruments may now lead measures that previously required human judgement

and featured a few isolated and time-consuming components in a substantially shorter length of time. Furthermore, suitability can indicate a reduction in the time spent in the enrollment procedure. This level of appropriateness was investigated in the Hilton inn case.

Conclusion

As a result, the study by notable researchers clearly demonstrates that Artificial Intelligence plays a significant role in extracting vital information from a pool of applicants, but there are few challenges in recent days when it comes to innovation. According to the creators, deficits in ability are undoubtedly the most challenging assessment in the hiring market. This statement is supported by one of the experts interviewed, who stated that AI may struggle with social contrasts: "Machine social comprehension and language predispositions are two more AI problems. A place where AI may struggle to understand social boundaries, vocabulary, and how data is introduced in a specific region or culture." The employment of computer-based intelligence to replace regulatory responsibilities is widely accepted. A corporation can get benefits such as enhanced contact with competitors, a larger up-and-comer pool, the re-discovery of lost gifts, and overall improved enlistment results by introducing AI programming into the standard enrollment process. However, each organisation should independently assess the use of AI programming in these areas of the enrollment interaction to determine if the way AI is used in enrolment is something that their organisation demands.

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