The benefits of eHRM and AI for talent acquisition

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Abstract

Purpose – The hospitality and tourism industry faces a number of workforce challenges, especially the high turnover rates and associated replacement costs associated with continually identifying and hiring new employees. The purpose of this paper is to discuss how hospitality and tourism organizations can use electronic human resource management (eHRM) and artificial intelligence (AI) to help recruit and select qualified employees, increase individual retention rates and decrease the time needed to replace employees. Specifically, it discusses how e-recruiting and e-selection and AI tools can help hospitality and tourism organizations improve recruiting and selection outcomes.

Design/methodology/approach – Research on eHRM, AI, employee recruitment and employee selection are applied to the hospitality and tourism industry and insights for how eHRM and AI can be applied to the industry are discussed.

Findings – eHRM and AI have the potential to transform how the hospitality and tourism industry recruit and select employees. However, care must be taken to ensure that the insights gained and the decisions made are well received by employees and lead to better employee and organizational outcomes.

Research limitations/implications – This paper represents the first research that integrates research from eHRM and AI and applies it to the hospitality and tourism industry.

Originality/value – This paper represents the first research that integrates research from eHRM and AI and applies it to the hospitality and tourism industry.

Keywords Selection, Artificial intelligence, Recruitment, e-HRM, Electronic human resource management, eHRM, Employee selection, e-recruiting, e-selection

Paper type Research paper

Like all industries, the hospitality and tourism industry faces a number of workforce challenges. For instance, the hospitality industry is labor intensive, with estimates suggesting that hoteliers spend approximately 33% of revenue on labor costs (Deloitte, 2015). One of the primary labor challenges is the very high turnover rate in the industry. Estimates indicate that the turnover rate for the hospitality industry in the USA is over 50%, with some sectors (e.g. hotel and food) experiencing turnover rates of over 70% (Bureau of Labor Statistics, 2019). These estimates are similar to those found in other countries, such as the UK (30%) (KPMG, 2019) and The Netherlands (30%) (Vellenga, 2016). In addition, these turnover rates have been growing for the past 10 years (Bureau of Labor Statistics, 2019). Turnover also has a dramatic impact on labor costs, with a recent industry survey suggesting 41% of organizations found that an entry-level hire who subsequently leaves could cost the organization over $30,000 (McConway, 2019).

Thus, a great deal of time and money are spent attracting new applicants, and dealing with the “churn in the system” associated with constantly replacing employees. We believe that electronic human resource management (eHRM) and artificial intelligence (AI) can help the industry reduce this turnover rate, and ensure that they can attract, motivate and retain talented employees. For instance, the use of electronic recruitment (e-recruitment) and electronic selection (e-selection) methods can help companies in the industry uncover
talented applicants, and hire those that fit with the requirements of jobs (P-J fit) and organizations (P-O fit) (Kristof-Brown, 2000). Increased job and organizational fit should enable organizations to hire talented employees, reduce attrition rates, and decrease the heavy time and workload associated with the constantly replacing employees (Johnson and Stone, 2019; Kristof-Brown, 2000).

We believe that eHRM and AI can be beneficial for hospitality organizations and enable them to hire talented employees, or decrease the time needed to replace them. In particular, we consider how the use of e-recruitment can help attract and uncover qualified applicants who will join and remain with the organization, and e-selection can help organizations increase the level of fit between applicants and jobs or organizations so that they will remain with the organization. However, we first consider the overall goals of the HR systems in organizations as well as a brief overview of eHRM and AI. We then turn to a discussion how they can enhance recruitment and selection practices. We then briefly close by noting the risks and concerns to consider when implementing AI-enabled eHRM in recruitment and selection.

**Goals of human resource management systems in organizations**

The primary goals of the HR system in organizations are to attract, motivate and retain talented employees (Katz and Kahn, 1978). Research on HR strategy has revealed that employees are more important than ever in today’s service and knowledge organizations because companies compete on the basis of the talents and skills of their employees (Huselid, 1995). To achieve these goals, HR systems must be designed to meet several key objectives (Johnson and Stone, 2019; Stone et al., 2003). For example, they should attract highly talented applicants by using effective recruiting practices. In addition, they must use selection systems to hire the best applicants and ensure that there is a fit between individuals and jobs and the goals of organizations. Further, they need to offer training and development opportunities as job requirements change. Finally, they should enhance the retention of workers through effective selection and compensation systems. However, if retention rates are low, high turnover rates often create a “churn” in the system, which means that organizations are constantly involved in the hiring and replacement process.

**Electronic human resource management**

There is no question that technology is transforming the practice of human resources. From recruitment to retirement, employees interact with, and are affected by, human resource information systems (HRIS). An HRIS is “used to acquire, store, manipulate, analyze, retrieve, and distribute information regarding an organization’s human resources.” (Kavanagh and Johnson, 2018, p. 8) and has altered the way we recruit, select, train, compensate employees and develop HR strategies (Parry and Tyson, 2008; Strohmeier, 2007). In fact, the increased use of HRIS has provided HR with the information that allows them to transform HRM policies and practices (Johnson et al., 2016). This new approach to managing HRM has been called electronic human resource management (eHRM) and is defined as the use of internet or intranet technology to facilitate human resource management (HRM) processes including recruitment, selection, training, performance management, compensation and HR planning (Lengnick-Hall and Moritz, 2003; Ruël et al., 2004). For example, Web-based recruitment, online testing, e-learning and electronic compensation each represent a form of eHRM (Johnson et al., 2016), and research has shown that eHRM can improve HR outcomes (Bondarouk and Ruël, 2013; Parry and Tyson, 2008). With the increased use of eHRM, large organizations are now turning to AI to enhance decision-making and communication.
Artificial intelligence

In 1950, Alan Turing proposed that humans would consider a machine intelligent if the human interacting with that machine could not tell whether he or she was interacting with a human or a machine (Turing, 1950). Subsequently, cognitive scientists, computer scientists and others have attempted to design intelligent systems. These intelligent, or artificial intelligence (AI), systems were originally designed to mimic human cognitive decision processes, and to support and solve a well-defined or structured problems. The earliest systems focused on solving “common sense” problems using algorithmic logic (McCarthy, 1958). Not surprisingly, AI often refers to a class of technologies, whose goal is to replicate human cognitive processing (Flasiński, 2016).

With the global deployment of information systems and the growth in organizational understanding of business processes, organizations continue to explore ways to improve decision-making, prediction and performance (Dulebohn and Johnson, 2013; von Krogh, 2018). Core to these advances in decision-making capabilities is the use of AI, which the Society of Human Resource Management (SHRM) has identified as one of its top technology trends and a key driver of HRM in the future (Wright, 2017). However, for the hospitality industry to leverage fully AI to support HR, they will need to understand both their core industry, as well as how technology and statistics can improve decision-making (Maurath, 2014).

AI provides capabilities that support three areas of business functioning (Davenport and Ronanki, 2018). First, AI can enhance business process automation by providing cognitive capabilities within the software. For example, organizations are using AI to augment automated decision-intensive tasks such as loan processing and supply chain management, and provide cognitive insights about customer purchasing behavior. In support of HRM, the National Aeronautics and Space Administration (NASA) found that the use of AI enhanced HR processes allowed them to complete 86% of HR tasks without human intervention (Davenport and Ronanki, 2018). In a sense, with AI-enabled process automation the software algorithmically makes and implements decisions with little human intervention. Given that researchers have found that AI-based expert systems can mimic the decision recommendations of employee benefits experts (Sturman et al., 1996), AI-enabled eHRM would not simply recommend a set of benefits from which employees can choose, but would choose these benefits for employees, and automatically sign them up.

Second, AI can provide cognitive insights that facilitates decision-making. This form of AI uses algorithms and machine learning to interpret vast amounts of data, looking for hidden patterns not previously identified by organizations. Organizations have used AI in this fashion to predict customer-purchasing behavior, identify fraud and create customized advertisements. For example, in the last two presidential election cycles, candidates used AI to target messages to unique groups of individuals to maximize the impact of each ad and reduce costs (Smith, 2018). In addition, AI was able to more accurately diagnose cancer patients, and to do so in a fraction of the time needed by a panel of medical experts (Miller, 2019). AI has also helped assessed the link job characteristics to employee satisfaction (Tian and Pu, 2008).

Finally, using intelligent agents and chatbots, AI can support cognitive engagement. These agents are the closest thing to AI as theorized by Turing, because the goal of chatbots and intelligent agents is to retrieve and share knowledge from a knowledge base, and share that with individuals through natural and human-like social interaction. One of the reasons for deploying chatbots in organizations is to handle the ever-increasing number of applicant, employee and customer requests for information. For example, many e-commerce vendors deploy intelligent agents to help customers make purchase decisions (Xiao and Benbasat, 2007), and organizations are starting to use chatbots to help customers and employees. For example, SEBank uses an intelligent chatbot to provide support for employees that have IT-
related questions (Davenport and Ronanki, 2018). We now turn to a discussion about how eHRM- and AI-enabled eHRM can improve recruitment and selection outcomes in the hospitality industry.

E-recruitment

Organizational recruitment is driven by the goal of attracting highly qualified individuals and motivating them to apply for jobs (Breaugh and Starke, 2000; Rynes, 1991). If organizations are able to attract a large pool of qualified applicants, they can then be selective in the hiring process, and hire the best individuals for their jobs. To accomplish these goals, organizations have started using electronic recruiting (e-recruiting) methods. E-recruiting is:

the use of communications technologies, such as websites and social media, to find and attract potential job applicants, to keep them interested in the organization during the selection processes, and to influence their job choice decisions (Chapman and Gödöllei, 2017, p. 213).

The use of e-recruitment has several advantages for hospitality organizations including broadening the applicant pool, and increasing the efficiency of the recruitment process (Chapman and Gödöllei, 2017). In addition, the use of AI-enabled e-recruitment methods can enhance recruitment outcomes including initial screening. Each of these are discussed below.

Broadening the applicant pool

Given the large turnover rates in the hospitality and tourism industry, these organizations regularly need to identify and attract a large number of applicants to fill critical job vacancies. By listing openings on recruitment websites, applicants can easily access them any time of the day or night. Organizations have found that the use of e-recruitment has led to a much larger applicant pool than traditional recruitment processes (Chapman and Gödöllei, 2017). For example, Kia Motors received 43,000 applications within 30 days for 2500 open positions when they opened a new plant in Georgia (Adams, 2008). In addition, increasing the size of the applicant pool will also increase the likelihood that organizations will uncover individuals who fit the desired hospitality-oriented and organizational specific values and goals. Recruiting individuals that fit with organizational goals should increase the likelihood that they will accept jobs, and remain with the organization over time (Cable and Judge, 1997).

AI can also help enlarge the applicant pool and attract applicants who fit with the organization. Specifically, organizations can use AI cognitive insight capabilities to identify the characteristics of high performing employees and those who have remained with the organization for a long time. For example, some research has shown that employee needs for good relationships with co-workers and supervisors, job enrichment, developmental opportunities and satisfaction with pay influence retention rates (Hom and Griffeth, 1995). Organizations can then identify the characteristics of high performing employees, including those who have remained with the organization for a long time, and develop targeted recruitment messages that can motivate similar applicants to apply for jobs.

Reaching passive job applicants

Another major advantage of e-recruiting is that organizations can identify and attract applicants who may be currently employed, and not actively seeking another job (i.e. passive applicants). For example, organizations can scan professional social media sites (e.g. LinkedIn) to uncover individuals who meet job requirements, and contact the person about applying for a job. One benefit of identifying passive applicants is that they may already have the needed job experience and should be less likely to be job hoppers.
Research has found that using professional social media sites such as LinkedIn were very effective in identifying and attracting qualified job applicants (Nikolaou, 2014).

Using data stored in the HRIS, organizations can also scan the employee records of current employees to identify those who meet the requirements of the positions. A major advantage of this approach is that current employees may gain promotion opportunities, and the process may lead other employees to believe that the company offers advancement opportunities, which should increase job satisfaction rates. Although this strategy appears feasible, we know of no research that has examined its effectiveness.

**Enhancing efficiency and timeliness: reducing costs of recruitment**

The use of e-recruiting can also increase the efficiency and timeliness of recruitment, and decrease recruitment costs (Stone et al., 2005). For example, research has found that e-recruitment can decrease recruiting costs by 95% and hiring cycles by 25% (Cober et al., 2000). Although e-recruiting can increase the administrative burden associated with processing large number of applicants, the automated processes associated with e-recruiting can also streamline processes. For instance, e-recruiting can use keyword scanning systems to determine if applicants meet minimum job requirements, and quickly send letters to applicants relaying their status in the screening process (Johnson and Stone, 2019; Stone et al., 2003). In addition, online applications allow applicants to input their work history, education, personal information, and other job-related details requested by the organization. Software can then automatically scan the application or resume and use keywords to determine if applicants are qualified for jobs.

One of the biggest challenges facing organizations is identifying highly qualified applicants from their large pools (Ideal, 2019). AI-enabled process automation can assist with this step by using algorithms to identify profiles of talented applicants and select the ones who should be invited for interviews. AI can also generate letters to applicants indicating if they are qualified or not qualified for jobs, and provide them with information about the next steps in the process (Stone et al., 2005). The standardization of the initial screening process can improve its efficiency, enhance the fairness of the process and ensure that organizations recruit the most effective applicants (Stone et al., 2005; Sylva and Mol, 2009). This can also have a positive impact on applicants’ motivation to apply for jobs because research has shown that applicants are more likely to apply for jobs in organizations with good rather than poor administrative processes (Rynes, 1991).

Another major challenge in the recruitment process is communicating with applicants, and ensuring that they are aware of their status in the process. Industry research found that 43% of applicants never heard back from an organization after their initial contact (Workopolis, 2016), and the lack of information created negative reactions to the organization. Chatbots connected to an organization knowledge base can help by automatically responding to simple inquires and informing them about their status. This can improve applicant perception of the firm and reduce negative applicant reactions.

**Increasing applicant attraction and degree of fit assessments**

Another benefit of e-recruiting is that websites can be designed to increase applicants’ attraction to an organization and recruitment messages can be tailored to target applicants with specific skill levels. Research has found that applicants were more attracted to jobs when their cultural values were consistent with the values and goals of the organization displayed on the website (Harrison and Stone, 2018). Other research indicated that applicants were more likely to apply for jobs when the website revealed job-related and benefits information than when it did not (Allen et al., 2007). Further research revealed that applicants were more satisfied with websites that were customized for specialized openings than those that were not (Furtmüller et al., 2010).
In addition, research indicated that a number of website characteristics had a positive impact on applicant attraction to organizations including website usability (Cober et al., 2003); website speed and ease of use (Sinar et al., 2003); and the aesthetic design of the website (Murphy et al., 2018). However, it is important to note that the research on website aesthetics is inconsistent. Some studies, Cober et al. (2003), found that website aesthetics were not related to applicants’ organizational attraction, but others indicated that they were related to applicants’ attraction (Murphy et al., 2018). Thus, additional research is needed to understand fully which website characteristics can enhance applicants’ motivation to apply for jobs.

Recruiting websites can also help potential applicants assess their P-O fit before applying for jobs (Dineen et al., 2002), which should enhance the degree that they will remain with the organization (Dineen and Noe, 2009). For example, hospitality and tourism organizations can design websites to display employee testimonials about the pride that they feel when they provide outstanding customer service and enable people have extremely memorable holidays. Websites can also provide applicants with a realistic job previews (RJP), which are messages about the pros and cons of working for the organization. In particular, comments might indicate that working in the organization can be extremely satisfying and involves interaction with customers from around the world. However, the comments can also specify that interactions with customers may be difficult and stressful, and it can be hard to please all individuals. Some recent research examined a new strategy that organizations are using to increase the degree to which websites provide personalized information to applicants. In particular, a study by Harrison and Stone (2018) examined the degree to which “contacting a friend at the organization” enhanced applicant attraction and found that this strategy was effective for applicants who were high rather than low in collectivism.

Although we know of no specific research on the use of RJPs in the e-recruiting process, we believe that the use of online RJPs can increase employees’ satisfaction rates, and reduce turnover levels. The primary reason for this that applicants can self-select themselves out of the selection process if they feel that they do not fit with the job or organization (Hom et al., 1998; Wanous, 1978). This strategy can be extremely beneficial for hospitality organizations because it is likely to decrease the relatively high turnover rates in the industry. However, research is needed to examine its effectiveness.

AI can also enhance the effectiveness of e-recruiting. For example, companies can use AI to develop games that help prospective applicants understand what it is like to work for the organization, and can help them assess the extent to which their personality or values matches those in the organization. For example, Shell created a game that allows players to explore for oil, and Siemens created a game that allows individuals to practice managing a plant (Smurthwaite, 2019). Results showed that these games increased the extent to which high fit employees applied for jobs with the companies.

Taken together, the brief review above suggested that e-recruiting and AI can help organizations broaden their applicant pool; reach passive job applicants; increase the timeliness and efficiency of the recruiting process; enhance applicants’ attraction to organizations; and improve the degree to which applicants can assess fit with the organization. In the paragraphs that follow, we consider how e-selection may be beneficial to hospitality organizations.

E-selection

As noted above, we believe that e-selection can also help hospitality organizations hire and retain talented employees. Two factors thought to influence individuals’ retention in organization are the degree to which they fit with the job requirements, and fit with the goals and values of the organization (Cascio, 2019). Quite simply, when individuals’ knowledge,
skills, abilities and other requirements (KSOAs) correspond to the requirements of the job (P-J fit), their performance should be higher, and they should have more positive job attitudes toward the organization than when their KSAOs do not match job requisites (Chatman, 1989; Kristof-Brown, 2000). It merits noting that research has shown consistently that individuals’ job satisfaction levels are related positively to retention in organizations (Griffeth et al., 2000). Further, models of person organization fit (Chatman, 1989; Kristof-Brown, 2000) also predict that when individuals’ values are congruent with the goals and values of the organization they are more likely to accept a job and remain with the organization than when their values are not in agreement with organizational values (Cable and Judge, 1997). In support of these arguments, research on P-J fit and P-O fit found that perceptions of organizational fit were positively related to job satisfaction and organizational commitment and were negatively related to turnover (Verquer et al., 2003).

Given that individuals’ P-J and P-O fit are likely to increase retention levels, we believe that methods used to increase the degree of fit between individuals and jobs or organizations should help hospitality organizations decrease their turnover rates. We also maintain that the use of e-selection systems and AI may enable organizations to increase P-J and P-O fit levels. Thus, in the sections that follow we consider how e-selection systems might assist organizations in enhancing the fit between employees and jobs and/or the overall organizational goals.

Simplifying job analysis

One of the first steps in the selection process is conducting a job analysis, which identifies task requirements and uncovers the KSAOs (job specifications) needed to perform the job (Gatewood et al., 2016). Although organizations use a variety of techniques to conduct job analyses (e.g. questionnaires, interviews), the process can be very time-consuming, and we believe that the use of online job analysis will greatly simplify and streamline this process. For example, an online job analysis typically gives job analysts the opportunity to collect data from subject matter experts (SMEs) (e.g. job incumbents and supervisors) about job requirements and specifications using Internet questionnaires. In turn, the responses are shared electronically with a panel or group of analysts (Gatewood et al., 2016). This panel can meet using videoconferencing to discuss task requirements and develop a job description without traveling to remote locations. They can also make inferences about job specifications (e.g. KSAOs) in a virtual environment.

Thus, an electronic job analysis approach uses geographically dispersed SME panels to discuss and make final decisions about job requirements and job specifications. The identification of tasks and KSAOs is important for every aspect of HRM, but is especially important in the recruitment and selection process. Organizations use data from a job analysis to develop recruiting websites and is the basis for initial screening criteria and selection decisions (Stone et al., 2013). Although there has been relatively little research on the effectiveness of this process, a study by Reiter-Palmon et al. (2006) found that electronic job analysis methods were less time-consuming, more flexible and easier to use than traditional methods. Thus, organizations can identify the job-related tasks and specifications quickly using an online job analysis technique that reduces the time needed for the overall selection process.

AI can also support electronic job analysis in several ways. First, AI can help job analysts develop job descriptions and specifications. For example, AI could use any previous descriptions for positions, match them with job descriptions for external positions or from systems such as O*Net[1]. Thus, AI could be used in the first step of job analysis and help analysts understand the nature of the job and skill requirements prior to collecting data from SMEs. These data could also be used to develop job analysis questionnaires. Second, organizations could use AI to update job descriptions so that they match the job that is currently being done by employees. Over time, job descriptions and specifications can
become outdated, and AI could be used to scan existing job descriptions and identify parts that need to be updated.

**Facilitating online employment testing**

Another major advantage of e-selection is that it can facilitate the employment testing process (e.g. cognitive ability testing, personality inventories), and use the information to determine the degree of fit between individuals and jobs or organizations (Stone et al., 2013). For instance, organizations can test applicants remotely, using the internet, and applicants can complete employment tests or inventories at remote locations at their convenience (Tippins et al., 2006). This process enhances the timeliness and flexibility associated with employment testing, and decreases the need for test proctors, which decreases the overall costs of testing.

There has been some research on the equivalence of computerized or internet-based cognitive ability tests, and in-person testing, but the results of this research have been mixed (Stone et al., 2013). One of the major questions addressed by this research is whether computerized and paper and pencil cognitive ability tests generate comparable test scores. Some research has found that the two forms of the tests are equivalent (Buchanan and Smith, 1999), but other studies revealed that scores for online ability tests were lower and more variable than those for paper and pencil tests (Ployhart et al., 2003; Potosky and Bobko, 2004). Thus, organizations may not want to use online cognitive ability tests until strategies are developed to ensure that the two forms of tests provide comparable results.

Although online and paper and pencil cognitive ability tests may not always be equivalent, research has shown that computerized and paper versions of personality inventories are equivalent in most cases (Chuah et al., 2006; Salgado and Moscoso, 2003). Thus, organizations may be able to use online personality inventories in the selection process, and use the information to make key hiring decisions. Some research has revealed that the use of personality inventories may not always be predictive of job performance (Johnson and Stone, 2019), but other research has shown that matching an applicants' personality to the values of the organization enhances P-O fit (Cable and Judge, 1997). Thus, we believe that hospitality organizations might want to use personality inventories to increase their retention rates because an extraversion and agreeable may be related to good customer service. Research, however, is needed to examine this prediction.

AI can also facilitate selection in several ways. For example, AI-enabled business process automation can be used to develop computer adaptive tests (CAT) which tailor test items to each test taker (Tippins et al., 2006). CAT is designed so that when test takers answer a question it is tailored to the person’s skill level, and when questions are answered correctly a more difficult test items is presented. However, when a question is answered incorrectly, an easier question is presented. Thus, AI can help organizations develop targeted tests based upon test takers’ skill level and an analysis of the answering patterns. This approach can maintain the validity of the tests and reduce test administration time and costs (Overton et al., 1997).

**Enabling remote video interviewing**

Another advantage of using e-selection is that it lets organizations interview applicants at remote locations and decreases the costs and time associated with the interview process (Stone et al., 2013). For example, organizations can now use videoconferencing to conduct pre-employment interviews. As evidence of the popularity of video interviewing, over 80 companies currently offer video-based interviewing solutions (Software Advice, 2019). These interviews can be two-way (i.e. interviewee and interviewer can communicate with one another) or one-way (i.e. interviewee answers questions only). With two-way interviews,
organizations can use a video-conferencing tool such as Zoom or Skype to interview an applicant. With a one-way interview, or digital interview an individual might respond to a predetermined set of questions on videoconferencing (Kharkovyna, 2018). These interviews should be especially helpful for hospitality organizations because they will enable decision makers to determine the degree to which individuals’ fit job requirements and ascertain if applicants’ values are congruent with the organizational values. For example, excellent customer service is often a major value in hospitality organizations, and interviewers can ask applicants to provide situational examples of the time they provided excellent customer service in their previous jobs. Applicants’ responses to this question and others should help decision makers determine if there is a good fit between the applicants’ and organization’s goals.

There are a number of ways that AI can improve online interviews. First, setting up interviews can be time-consuming and cumbersome. Chatbots (using cognitive engagement) can automatically handle the scheduling and coordination of interviews with candidates, including any updates regarding future meetings and locations (Kharkovyna, 2018). Research has found that 66% of candidates were comfortable using chatbots in this way. In addition, AI can support the analysis of digital interviews. Organizations are using AI-enabled business process automation to automatically analyze muscular contractions (e.g. frowning while talking about prior employment), voice tone (e.g. enthusiastic about this position or company), and proficiency in English from the video interview (Kharkovyna, 2018). Finally, AI has the potential as a coaching tool for applicants. It is likely that mentors and coaches will work with individuals to improve their interviewing skills, and can use these same tools to provide feedback to their mentees.

Supporting effective selection decision-making

The last step in the selection process is to combine all of the information collected in the process to make a final selection decision. For example, organizations can merge information gathered from job applications, employment tests, personality inventories and interviews, and AI can develop algorithms that weight and combine the information to make overall hiring recommendations. The use of AI should be very beneficial in this process because it does not include biases or affect reactions to applicants, which often mislead decision-making. Thus, we believe that the use of AI algorithms may make more effective selection decisions than traditional decision-making, but research is needed to examine this prediction. Industry research supports this argument, finding that AI enabled hiring decisions result in a 20% increase in employee performance and a 35% decrease in turnover rates (Ideal, 2019). Overall, we believe that e-selection and AI can help hospitality organizations hire employees with a better P-O fit and increase retention rates. We identified a number of benefits of using e-selection and AI-enabled hiring decisions including simplifying job analysis, facilitating employment testing, enabling remote video interviewing and supporting overall selection decisions.

Conclusion

The hospitality and tourism industry is a labor-intensive industry that faces a number of important workforce challenges. Chief among them is the high level of turnover in the field. As a result, we argued that eHRM and AI could help them attract, motivate and retain talented employees, and reduce turnover rates. In this paper, we considered how the use of eHRM and AI may enhance the fit between employees and organizations, and increase retention rates. As Johnson et al. (2016) noted, the very act of automating HR practices provides organizations with additional capabilities that enable them to hire the most talented employees who will be motivated to remain with the organization over time.
Note

1. O‘Net is an online database of occupations developed by the US Government, which lists KSAs needed, work activities and more that are associated with different positions (www.onetonline.org/).

References


Further reading


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