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To study the adoption and application of HR analytics among HR professionals in the organizations

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Abstract
Business facts and data that support these goals are a must for the corporate strategic plans. Data-driven decision making, evidence-based initiatives, prioritizing the effects of HR investments, and improved company value and performance are all promised benefits of HR analytics. This study seeks to understand why Saudi HR professionals do not employ HR analytics to improve corporate performance and preserve a competitive edge. The descriptive survey research design is employed. The adoption of HR analytics by human resource professionals at the individual level is the main topic of this study. The study design is a descriptive survey. This paper's major goals are to comprehend the significance of HR analytics and to learn more about the obstacles that prevent HR professionals from fully implementing HR Analytics. The study's entire sample included 134 HR experts who worked for Manufacturing Firms in Haryana. The questionnaire that was distributed to the target sample via LinkedIn, WhatsApp, and the work's official email served as the main source of data for this study. The use of HR analytics and the other parameters are found to have beneficial links in the study.

Keywords: Human resource analytic, HRA adoption intention, HRA adoption behaviour

Introduction
All business operations in organizations all around the world are undergoing a digital revolution, and human resources is no exception. The adoption of HR analytics, a software tool that gathers real-time and metrics-based insights for better decision-making, is one example of how HR is being digitalized. Employers are now able to improve employee skills, increase retention, and gain a competitive edge thanks to the implementation of HR analytics.

HR Analytics
Several academics and authors have made various attempts to describe HR analytics, which is still a developing field. Since analytics is ingrained in society, HR analytics is designated by prefixing all terms that are used to denote human resources to analytics. Some refer to it as human capital analytics, while others refer to it as talent analytics or workforce analytics. Few authors now choose to refer to it as people analytics. Yet, each word refers to HR analytics in the same functional sense. Analytics should assist managers in identifying insightful similarities, differences, and trends that validate the crucial business areas that demand concentration for efficient business operations in addition to supporting everyday functions. Hence, analytics is "the finding of significant patterns in data to understand the drivers of performance," according to Gene Pease (2015) [4]. "HR analytics is the systematic collecting, analysis, and interpretation of people-related data," write Davenport, Harris, and Shapiro (2010) [5].

Growing importance of hr analytics applications
Any type of business will constantly endeavor to be effective and efficient to improve the results. Business analytics has aided organizations in developing strategies that position them as market leaders. The industry's top performers have clearly been the early adopters of the analytic phenomenon, as shown by a recent trend. In their study, Davenport and Harris (2007) [6] discovered that strong achievers were more likely than low performers to use analytics strategically. High performance and analytics commitment are closely related.

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Need for the study
HR analytics are a relatively new topic in research due to its emergent nature. There are no noteworthy studies that explain how HR analytics are being used at the individual level. Although the idea of embracing technological innovation is seen as universal, there are a number of aspects that vary depending on the circumstances of each nation. The majority of research on information systems and HR technology was based on industrialized countries. On the basis of these assumptions, an effort is made to determine the current analytical proficiency level of HR professionals, to gauge their willingness to adopt HR analytics, and to ascertain the scope of HR analytics applications within organizations.

Statement of the problem
In India, the number of HR analytics positions is growing as more organizations turn to using analytics in the HR field. The need for HR experts that can manage the analytical tasks in HR is on the rise. Using personnel analytics helps companies achieve their goal of improving organizational effectiveness overall. Research may show a connection between the culture of HR analytics and overall business performance. Organizations aspire to implement HR analytics in order to obtain a strategic edge given the rising emphasis on analytics in the HR field. The preparedness of HR experts is a crucial component of this adoption's success. HR analytics will be used more effectively the more analytically skilled HR practitioners are. Although there has been some growth in the analytical abilities of HR professionals, it has not been sufficient to meet the standards, as stated in past reports. So, it is crucial to comprehend the personal variables that influence HR professionals to utilize HR analytics. It must be determined whether the problems are more closely tied to the effectiveness and demography of the HR specialists or to any other prevailing variables. In addition, not all organizations use HR analytic solutions in the same way. So, it is unknown how much HR analytics are being used by organizations to their advantage. In light of this, the current study makes an effort to understand how HR professionals adopt and use HR analytics by looking at demographic and psychographic variables. This procedure aims to determine whether analytical skills or HR analytics adoption at the level of HR professionals are reflected in the use of HR analytics as a whole in the organizations.

Significance of the study
The research will also aid in the creation of a framework for understanding the analytical skills required of HR professionals and the applications of HR analytics required for conducting studies in organizations. The present study's managerial and practical consequences will help organizations understand the level of HR professionals' adoption of HR analytics across industries. They might compare, improve, and benchmark their HR analytics methods thanks to these consequences. The organizations will be able to identify the areas in which the HR professionals may be trained to be capable of using HR analytics frequently by using a light on the analytical competencies of HR experts. Also, the organizations can anticipate advancing to the subsequent stage of analytical

adoption.

Review of literature
Selvaraj, Vishnu & V, Santhi. (2023) [1]. The purpose of this essay is to examine the relationship between organizational sustainability and the effects of HR analytics on HRM procedures. The study used constructs for organizational sustainability, HR analytics, and HRM to evaluate and analyze its hypotheses. The research was principally supported by data, which were obtained from the intended respondents-HR personnel of particular Indian IT companies-via online questionnaires. This study made use of AMOS and SPSS. A completely new methodological technique was used in this investigation. The method's viability and scalability were proven. The results of the study demonstrated a strong relationship between the organizational sustainability concept and the anticipated use of HRM techniques. A method for HR analytics is used in the study to forecast HRM components of organizational sustainability.

Chandrika, K & Satharasinghe, Iruni. (2021) [2]. This article's goal is to undertake a systematic evaluation of the empirical data from a few key journal papers on the adoption of human resource analytics. Previous studies have looked into the ideas of business analytics, business intelligence, big data in relation to HR analytics, as well as literature on the adoption of new technologies. 20 review papers that are pertinent to the topic of HR analytics adoption were primarily searched, and the aforementioned articles were chosen based on how extensively HR analytics were treated in each article. Major databases like Emerald Insight, Taylor & Francis, Wiley Online, Science Direct, JSTOR, and Sage were used to extract a few key articles. Results show that corporations as well as HR professionals are largely responsible for using HR analytics. According to the body of literature, there has been little research on the use of HR analytics in both organizational and personal contexts. By merging theoretical implications, this study adds to the body of knowledge on individual-level adoption, specifically of HR Analytics.

Objectives of the study
1. To study the impact of adoption and application of HR analytics among HR professionals in the organizations.
2. To study the impact of self- efficacy and social influence among HR professionals in the organizations

Hypothesis
H1: There is a relationship between the self-efficacy factor and the adoption of using HR analytics.

H2: There is a relationship between the social influence factor and the adoption of using HR analytics.

H3: There is a relationship between the tool availability factor and the adoption of using HR analytics.

H4: There is a relationship between the data availability factor and the adoption of using HR analytics.

Research methodology
A descriptive survey research design was used for this

investigation. It makes use of numerical data. To discover the factors influencing HR professionals' adoption of HRA, a questionnaire was used. The target sample received a questionnaire via emails, WhatsApp, and LinkedIn. 134 HR experts made up the study's entire sample. The main information gathered to investigate the connections between social influence, tool accessibility, data accessibility, and self-efficacy and the adoption of HR analytics.

Gender wise distribution

Table 1: Gender –wise distribution of employees

Particulars	No. of respondents	Percentage
Female	55	41.4%
Male	79	58.6%
Total	134	100%

Table 1 show that only 41.4% of the respondents who were chosen for the study were women, whereas 58.8% were men. This distribution indicated that more males were employed; as a result, the current study would more accurately reflect their beliefs.

Age- wise distribution

Table 2: Age wise distribution of employees

Ages	Frequency	Percentage
20-30yr	48	35.8%
31-40yr	55	41.3%
41-50 yr	25	18.6%
Above 50	6	4.47%
Total	134	100.0%

Table 2 displays the distribution of respondents by age who participated in the study and provided their opinions on the HR Professional. It was discovered that those between the ages of 20 and 30 made up the largest percentage of responders (41.3%), then those between the ages of 31 and 40. 35 percent. Young people therefore make up the majority of responses.

Table 3: Correlation between self-efficacy and hra adoption

Self-efficacy		
Adoption of HRA	Pearson Correlation Coefficient	0.5211
	n	116
	T statistics	7.4985
	DF	114
	p-value(2-tailed)	0.0000

The null hypothesis, which claims that there is a relationship between social influence and HRA adoption, can be accepted because the p-value is equal to 0.000, which shows that the observations are in conflict with the null hypothesis.

Table 4: Correlation between social influence and hra adoption

Social Influence		
Adoption of HRA	Pearson Correlation Coefficient	0.5607
	n	116
	T statistics	8.4395
	DF	114
	p-value(2-tailed)	0.0000

The null hypothesis, which claims that there is no connection between social influence and HRA adoption, can be rejected because the p-value equals 0.000 and shows that the observations are incongruent with the null hypothesis.

Table 5: Correlation between tool availability and hra adoption

Tool availability		
Adoption of HRA	Pearson Correlation Coefficient	0.5673
	n	116
	T statistics	8.6089
	DF	114
	p-value(2-tailed)	0.0000

As can be seen in the above table, there is a positive link between the tool availability component and the adoption of HR analytics, with a Pearson correlation coefficient value of 0.5673 between the two variables. The null hypothesis, which claims that there is a relationship between tool availability and HRA adoption, may be accepted because the p-value is equivalent to 0.000 and the findings are inconsistent with it.

Table 6: Correlation between data availability and hra adoption

Data availability		
Adoption of HRA	Pearson Correlation Coefficient	0.5474
	n	116
	T statistics	8.1082
	DF	114
	p-value(2-tailed)	0.0000

The null hypothesis, which claims that there is a relationship between data availability and HRA adoption, can be accepted because the p-value equals 0.000, which shows that the findings are inconsistent with it.

Conclusion

A more important component of the decision-making process for human resource professionals is human resource analytics (HRA). A software technology called HR analytics is utilized to obtain factual evidence in real time to help with decision-making. Using HRA has helped businesses achieve a competitive edge by enabling them to develop employee skills and attract and retain qualified workers. This study also discovered that HR professionals are more inclined to adopt employing analytics if they believe they are capable of learning and conducting the necessary process. Self-efficacy had the second-highest correlation value in this study, indicating a significant influence on the decision to adopt HR analytics on the part of HR professionals. Another crucial aspect of this study is the accessibility of the data. The estimated correlation coefficient between the availability of data and the adoption of HRA was (.647), which is seen as a sign of a favourable association between the two variables. This study identifies performance expectations, facilitating conditions, social influence, and effort expectations as the most crucial factors in HR professionals' decisions to embrace HRA. This should not be surprising given that HR professionals spend much of their time developing relationships and using their soft skills. HR professionals should start using HRA and have in-depth knowledge of the most recent analytics trends if they want to become a true strategic partner of the company

and sit at the executive table. Mentoring colleagues who aren't using HR Analytics is a good way for HR professionals to help them get over their obstacles. Businesses should allocate time and funds to encourage and facilitate this mentoring. As a result, those who are afraid to adopt analytics or quantitative approaches will benefit from this. Senior HR professionals should start mentoring and working with their younger counterparts who may be knowledgeable about data analysis and who are part of a professional learning society with their company. The HR profession would benefit from actively seeking opportunities to learn about or advance the usage of HRA.

References

1. Selvaraj Vishnu, Santhi V. A Study on Hr Analytics Adoption Level of Human Resource Management Practices in Select Information Technology Companies-Descriptive Study; c2023. 10.21203/rs.3.rs-2530346/v1.
2. Chandrika K, Satharasinghe Iruni. Adoption of Human Resource Analytics by HRM Professionals: A Systematic Literature Review; c2021.
3. Van Der Tgt, Rasmussen. Perceived usefulness, per-ceivedease of use, and user acceptance of information technology. MIS quarterly; c2015. p. 319-340.
4. Gene Pease. Strategic human resource management, human capital and competitive advantage: is the field going in circles? Human resource management journal. 2015;27(1):1-21.
5. Davenport Harris, Shapiro. The new HR analytics: American Management Association; c2010.
6. Davenport, Harris. Pre-dictive analytics for human resources: John Wiley & Sons; c2007.
7. Wejnert. The impact of HR practices, HR effectiveness and strong HR system' on organisational outcomes as take holder perspective. The Inter-national Journal of Human Resource Management. 2002;22(8):1686-1702.
8. Panayotopoulou Vakola, Galanki. Impact of macroeconomic and bank specific variables on spread of interest rate: a study of listed commercial banks in Bangladesh, Can. J Bus. Inf. Stud. 2007;2(6):148-156.
9. Kim J, Dibrell C, Kraft E, Marshall D. Data analytics and performance: The moderating role of intuition-based HR management in major league baseball. Journal of Business Research. 2021;122:204-216. https://doi.org/10.1016/j.jbusres.2020.08.057
10. Kochan TA. Restoring trust in the human resource management profession. Asia Pacific Journal of Human Resources. 2004;42(2):132-146. https://doi.org/10.1177/1038411104045352
11. Kochan TA. Social legitimacy of the HRM profession: AU Perspective. The Oxford handbook of HRM; c2007. p. 599-619. https://doi.org/10.1093/OXFORDHB%2F9780199547029.003.0029
12. Levenson A, Fink A. Human capital analytics too much data and analysis, not enough models and business insights. Journal of Organizational Effectiveness: People and Performance; c2017. https://doi.org/10.1108/JOEPP-03-2017-0029
13. Milon M. Presents cenario of human resource management (HRM) practices in the life insurance companies: Bangladesh perspective. Can. J Bus. Inf. Stud. 2019;1(6):17-27. https://doi.org/10.34104/cjbis.019.01727
14. Minbaeva DB. Building credible human capital analytics for organizational competitive advantage. Hum. Res. Manag. 2018;57(3):701-713. https://doi.org/10.1002/hrm.21848
15. Mondore S, Douthitt S, Carson M. Maximizing the impact and effective-ness of HR analytics to drive business out-comes. People and Strategy. 2011;34(2):20.