

THE ROLE OF AI-DRIVEN TRAINING PROGRAMS ON EMPLOYEE PERFORMANCE: OPPORTUNITIES AND CHALLENGES

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Abstract—The importance of AI-based training programs in enhancing employee performance is explored in this research. With the help of AI technologies, including adaptive learning systems, virtual simulation, and AI-enhanced chatbots, organizations are able to tailor the training experience, enhance skills retention, and maximize productivity. In order to investigate the possibilities of using AI to transform employee learning and engagement, the paper will address the main theoretical framework, including the Human Capital Theory, the Technology Acceptance Model (TAM) and the Self-Determination Theory. The key uses of AI-based training are individualized education, skills training, automated exams and predictive analytics applied to identify performance. The first opportunities are instant feedback, affordability, and interactive learning, the second are the reluctance to integrate AI, data privacy problem, and the absence of relevant skills at the moment. Recommendations about the way AI training in the workforce development can be optimized are made at the end of the research.

Keywords: AI-based training, Employee Performance, Adaptive Learning, Skills Retention, Predictive analytics.

1. Introduction:

AI has become one of the biggest disruptors of various industries that has fundamentally changed the way organizations treat corporate training and skill development. With the growing intensity of competition and the business environment continuously changing at a high rate, business organizations are finding themselves being forced to develop creative solutions that would improve the performance, productivity and the long run development of the employees. The application of AI in training programs has befriended impressive trends in the educational records, healthcare, and financial services among others due to the scaled, customized, and most effective learning frameworks. As AI technologies have been developing, organizations have had an opportunity to respond to the urgent problem of creating a skilled, flexible, and future-oriented workforce.

The ultimate advantage of AI in employee training is that it allows personalised learning. Training modules are old fashioned and are often not one-size fits all and hence they do not tend to meet the diverse needs, abilities and learning preferences of the employees. This deficiency can be overcome efficiently with AI that customizes the learning content based on the job, skills and pace of acquisition of a learner. The learning process is adapted in real-time, which makes the resources relevant to the employees and they can be offered during the right moment and, therefore, generate greater involvement and a higher level of knowledge retention. This individualized method does not just improve performance, but it also creates a long-term growth in the career path of the learner as it gives him or her specific and meaningful developmental chances.

Thanks to the advent of Artificial Intelligence, it happens that organizations are witnessing a paradigm shift in terms of training and workforce performance improvement. Despite the potential of the AI-based learning systems, the systems also present significant challenges to the organizations that should maximize the productivity and level of employee engagement in the workplace.

The ability to create hyper-personalized learning paths is one of the most promising applications of AI to the training programs. Through the utilization of vast amounts of data such as employee performance indicators, unique learning needs, etc., AI will enable organizations to implement training programs that meet individual training needs. This kind of individualization enhances the degree of employee satisfaction, learning, and the development of an idea of learning as a lifelong process (Rozman et al., 2022; Baki et al., 2023). According to Rozman et al. (2022), AI fills the gap between the training requirements of the organization and the development of its employees, which increases engagement and general performance. Moreover, Kumar and Mittal (2024) noted that employees are more willing to broaden their competencies under the influence of AI-driven systems because they already believe in their functionality. Unanimously, these developments are leading to a more digitally oriented workplace- an agile, adaptive, and resilient workplace to the elements of a competitive business environment.

Moreover, the routine procedures can also be automated with the help of AI-based systems, which allows employees to focus on more important processes. The employees will experience reduced burnout and increased job satisfaction due to the removal of dull tasks (Siradhana and Arora, 2023). Introducing new technologies should rely on worker-focused approaches, allowing more people to become re-skilled and AI literate, which guarantees the further enhancement of employee welfare, Rydzik and Kissoon insist (Rydzik and Kissoon, 2021). Furthermore, the process of recruitment may be biased less when AI systems are introduced.

In addition to personalization, AI is also helpful to provide real-time feedback and monitor performance. The system can offer instant feedback because the performance of the employees is constantly monitored, which allows the employees to make instant changes and enhance their performance. Such a timely feedback keeps the learners always oriented to the goals thus, making the training process act dynamic, interactive and highly responsive. In addition to this, AI also automates numerous administrative activities such as course assignment, student attendance and report building. The fact that these monotonous tasks are going to be automated can also point to the possibility that AI can significantly reduce the administrative burden since the trainers and HR experts gain more time to focus on strategic planning and enhancing staff development initiatives.

The other significant AI usage in corporate training is the analysis of skill gap. Resting on the advanced data analysis, AI technology has the capability to detect any existing workforce skill gaps and offer a certain training program. This predictability is not just useful in enhancing efficiency of the training programs, but also in ensuring that the employees working in the organization are current with their skills to meet the current requirements of the job and the future requirement of the organization. As a result, AI-inspired learning will result in labor mobility that allows enterprises to adapt efficiently to transforming business needs and the existing business challenges.

In conclusion, AI-based training programs possess a lot of benefits that enhance the work of the employees and make them a success of the organization. The companies will produce a more capable and flexible workforce by using the power of AI to produce better, more efficient and more future-proof workforce by means of generating more personalized learning, real time feedback, and administrative automation plus making an analysis of the proficiency gaps present.

Research Objectives:

- To analyse how AI-driven training programs influence employee performance.
- To examine the opportunities and challenges associated with AI-based training initiatives.
- To identify the most effective AI tools used to enhance corporate training outcomes.

Research Questions:

- In what ways do AI-driven training programs contribute to improved employee performance?
- What are the main challenges organizations face when implementing AI-based training solutions?
- Which AI tools have proven most effective in enhancing employee learning and development?

2. Theoretical Framework

2.1 Human Capital Theory (Becker, 1964)

According to the Human Capital Theory suggested by Becker (1964), the investment in skills and knowledge of the employees is essential to improve the performance of an organization. This theory argues that the capital of individuals is the skills and investment in skills development results in more productivity and competitiveness at work place. AI-

based training integration fits this theory with providing a specific mechanism of enhancing employee knowledge and skills. The AI's training programs offer learner-centered training, and they are customized to address the needs and the individual advancements of the learner. This personal learning will make certain that employees are equipped with the exact skills needed in their job to enhance job performance.

In addition, the AI-based training has the potential to influence the level of job satisfaction positively since it provides the employees with flexibility to learn at their own pace, which leads to the improved job-life balance. Consequently, employees will have a better chance to feel empowered and motivated and this further contributes to their increased productivity. Moreover, AI in training saves the company money that would otherwise be spent in conventional training, and hence it is a relatively cheap investment. In general, AI-based training is beneficial to the human capital development as it boosts employee performance, elevates job satisfaction, and makes the organization grow long-term, which supports basic principles of Human Capital Theory.

2.2 Technology Acceptance Model (TAM) (Davis, 1989)

The Technology Acceptance Model (TAM), proposed by Davis in 1989, is a widely used framework for understanding how users come to accept and adopt technology. It posits that two key factors influence the acceptance of new technologies: *Perceived Usefulness (PU)* and *Perceived Ease of Use (PEOU)*.

- Perceived Usefulness (PU) refers to the degree to which a user believes that using a particular technology will enhance their job performance. In the context of AI-driven training programs, employees are more likely to accept and engage with such tools if they perceive them as beneficial to their learning and performance enhancement.
- Perceived Ease of Use (PEOU) refers to the extent to which a user believes that using a technology will be free from effort. If the AI-driven training program is intuitive, user-friendly, and easy to navigate, employees are more likely to adopt it.

According to TAM, both PU and PEOU directly affect the *Attitude Toward Using (ATU)* the technology, which in turn impacts the actual *Behavioral Intention to Use (BIU)* and subsequent use of the technology. Applying TAM to AI-driven training programs helps in understanding how employees' perceptions of the tool's usefulness and ease of use shape their engagement with the training, thereby influencing their overall performance improvements

2.3 Self-determination theory (SDT) (Deci & Ryan, 2000)

Self-determination theory (SDT) is a theory that was put forward by Deci and Ryan (2000), which emphasizes the issue of intrinsic and extrinsic motivation in determining human behaviour and improving performance. The theory establishes three fundamental psychological needs that are needed to create motivation and general well-being, these are autonomy, competence, and relatedness.

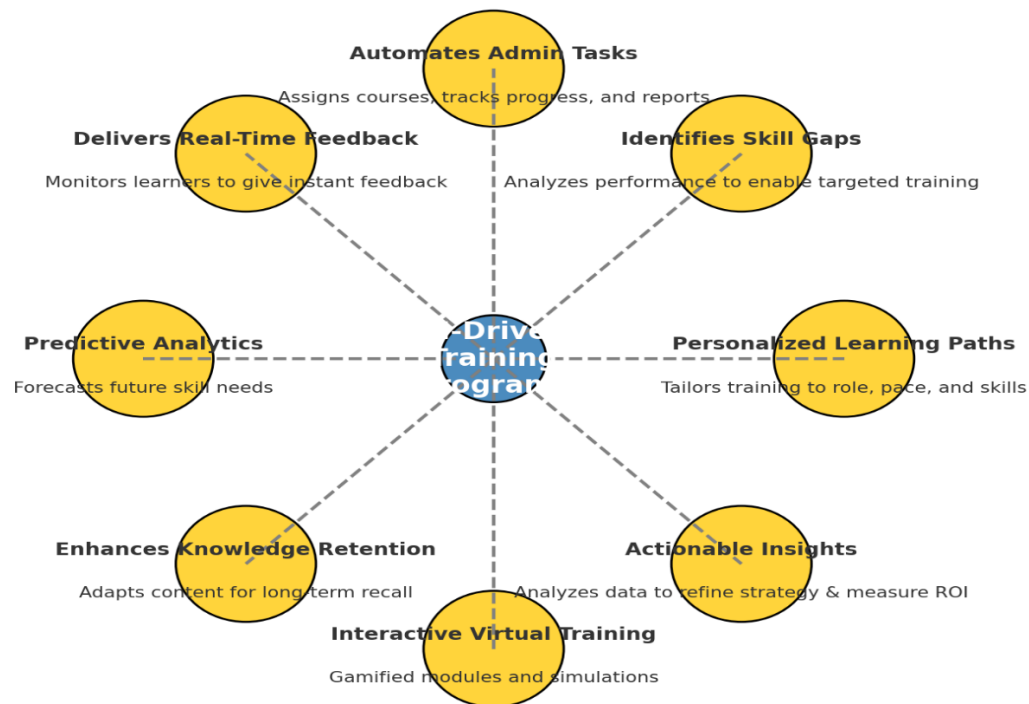
- Autonomy is the sense of power over oneself. When workers feel that they have their own directing and meaningful work as opposed to being forced, they are likely to be engaged and motivated.
- Competence is a feeling of being proficient and good in work. When the employee is challenged at the right level, the motivation is high and the employee feels that he or she has mastered something and thus performs well.
- Relatedness entails the experience of significant interrelationships with others. Favorable relationships and good working interactions lead to increased motivation and sense of belonging.

The SDT may be applied within the framework of AI-based training to develop systems that facilitate the formation of intrinsic motivation. An example is autonomous learning adventure that is facilitated by AI can facilitate autonomy by allowing employees to choose their learning experiences. The competence in an individual can be boosted with the help of feedback offered by AI, and the characteristics of collaboration can address relatedness because they introduce social interaction. Having training programs suited to such requirements, organizations will have an opportunity to promote employee engagement and performance and attain greater successful outcomes of AI-led programs. "Ryan and Deci (2020) emphasize that SDT's focus on autonomy, competence, and relatedness can be leveraged in AI-driven training to create motivation-enhancing environments, where personalized learning paths and real-time feedback foster employee engagement and skill mastery."

3. Roles of AI-Driven Training Programs

AI plays a significant role in modern corporate training, providing:

Roles of AI-Driven Training Programs



5. AI develops individualized learning paths based on the role, pace and capabilities of the individual employees and makes training more valuable, active, and productive to the personal development.

- It detects the skills gaps based on the data on the performance of the employees and provides specific training interventions which may increase the overall competence and preparedness of the workforce.
- AI automates the administrative processes, including course assignment, progress, and report generation, which saves time and enhances the effectiveness of HR teams training.
- It provides immediate feedback through the constant tracking of the performance of the learners to ensure the employees can address the areas of weaknesses quickly and keep the employees motivated during the entire process of the training.
- Predictive analytics allows AI-driven companies to anticipate future skills requirements to enable organizations to build talent proactively and match training objectives to business objectives.
- It improves the retention of knowledge by modifying the delivery of content based on the individual learning styles and reaffirming important information to be stored in long term recollection and application.
- AI aids interactive virtual training that uses gamified modules and simulation to provide an immersive experience of learning that enhances participation and skill utilization.
- It can offer actionable insights using training data analysis to guide organizations in refining strategies to monitor ROI and make informed decisions on constant improvement.

4 Opportunities of AI in Training

Personal Learning and Tailoring: The Artificial Intelligence-based training systems will be based on the personal learning trends, preferences, and the level of performance, and, therefore, the employees will receive the requirements of exclusive content. These learning platforms such as IBM Watson, Coursera AI, and Udemy AI change the pace and level of learning by individual students depending on their performance hence the learning experience and achievement becomes more enjoyable.

- **Ameliorated Interaction and Interaction:** The AI-based technologies, either chatbots or gamified learning, have the capacity to enhance the quality of interaction and engagement by offering the learners an interactive and personalized training process. It is possible to mention the AI-assisted learning paths at Microsoft where the simulations are applied to enhance the degree of knowledge retention and make the process of training more enjoyable and efficient as the employees are actually involved into the learning process.
- **Real-Time Feedback and Performance Analytics:** AI will be used as a source of feedback in real-time i.e. the employees will be in a position to know what they are doing well and where they need to perform in real-time. The tools, including the AI-based training platforms that Google offers, enable managers to comment on the performance metrics and program training which the intention of which would be to give employees immediate instructions that would positively influence the performance and level of skills.
- **Time-Saving and Cost-Effectiveness:** The AI will not require other traditional trainers since the development of training material and delivering will be automated. It is an economical way that the organizations save training-costs. The second advantage identified by PwC (2023) is that the cost of training will go down by 40 percent in any organization where the AI-driven training will be applied. Scalable Learning Solutions: AI-based solutions can be used indefinitely by personally training learners to make sure they are not sacrificed. The AI also helps in effecting the training programs in the expanded workforce since the organizations increase in size, therefore, it is a scalable solution that can accommodate the demands of various sizes and organizations.
- **Continuous Improvement: AI:** AI will accumulate lots of the information about learners, and it can help to comprehend how the employees will use the training materials. This type of information based on data would assist organizations to streamline their training programs in such a manner, that they would remain relevant, effective and also in tune with the evolving needs of the employees as well as the business.
- **Flexible Learning Environments:** AI based applications may also provide employees flexibility and self-directed learning opportunities by allowing them to access training modules at any time and place. This will enable the employees to learn whenever they are convenient and this will fit various work schedules, time zones and various learning preferences and will make the training more effective and successful.
- **Enhanced Employee Retention and Career Advancement:** AI-based training will allow workers the unlimited opportunities to practice their skills, making them feel valuable and interested in the training process, which will lead to the long-term success of the organization. Noe et al. (2014) argue that technology-driven training, such as AI-based systems, enhances learning outcomes by tailoring content to individual needs, supporting the paper's findings on personalized learning and its impact on employee engagement and performance.

5. Challenges in AI-Driven Training

Ethical and Data Privacy Issues: AI-based training programs need to collect massive amounts of sensitive employee data, which makes privacy and security issues a concern. Companies need to make sure that they are not violating such laws as GDPR, CCPA, and others that help to secure the information of employees and use AI in a moral and ethical way without breaking the privacy of the users.

- **AI Bias and Minimal or Limited Personalization:** AI algorithms may make biases by being trained on non-diverse or incomplete data. This may result in discrimination in customized learning journeys, which strengthens the prevailing disparities in career growth and denies certain classes of workers opportunities on the basis of race, sex, or origin.
- **Opposition to AI Implementation:** Employees and managers might oppose the adoption of AI-driven training systems because of the fear of losing their jobs or dehumanizing the learning process. To overcome this resistance, effective communication, engaging employees into the process, and strategic change management plans will be essential to help transition to the new environment smoothly and positively.

The Role of AI-Driven Training Programs on Employee Performance: Opportunities and Challenges

- **Relying on Technology and Infrastructure:** AI-based training programs are highly dependent on consistent internet connectivity and a stable technical infrastructure, which is not always the case everywhere. Such dependency leads to access problems, particularly to organizations in remote locations or small businesses that lack sufficient IT resources, or have low financial means to invest in technology.
- **Absence of Human Interaction and Human Support:** AI-based systems may not be as emotional as many employees require emotional support and mentorship. Lack of direct interaction with trainers can affect the ability of the employees to engage and enhance the ability of learning particularly those who favor personal interactions.
- **Expensive First Investment:** AI-based learning platforms have the advantage of being long-term valuable, but the start-up fees are prohibitive, at least to small enterprises. Implementing AI infrastructure, buying software, and staff training can be expensive, which may be a problem for organizations with a tight budget or small teams.
- **Job Displacement Concerns:** There is also a risk of job displacement among employees due to the establishment of AI-based training programs, particularly when employees view AI as a method of job elimination. Such fears may trigger opposition to the introduction of AI and reduce the morale of employees, which influences their productivity and interest in training programs.
- **Technical Limitations and Mistakes:** AI is not omnipotent and can make mistakes because of wrong data input or algorithm weaknesses. Error in training prescription or evaluation findings may be used to misdirect employees, which may cause problems in skill development or may support wrong learning directions that may negatively affect employee performance.

Mittelstadt et al. (2016) emphasize the importance of addressing data privacy and ethical concerns in AI systems, supporting the need for organizations to comply with regulations like GDPR and CCPA when implementing AI-driven training programs.”

6. AI Tools for Employee Training

AI Tool	Purpose	Features	Example Company Using This Tool
IBM Watson	AI-driven corporate training	NLP-based learning insights, automated assessments, personalized learning paths	Accenture uses IBM Watson for personalized employee development and training programs across multiple sectors.
Coursera for Business	AI-powered learning platform	Personalized course recommendations, interactive training, analytics for progress tracking	Google uses Coursera for Business to provide employees with access to high-quality, personalized learning content and track development progress.
LinkedIn Learning AI	Adaptive corporate training	AI-driven course suggestions, skills gap analysis, customized learning recommendations	Salesforce uses LinkedIn Learning AI to suggest courses and resources for employees to close skill gaps and stay updated in their roles.

ChatGPT for Training	AI-powered chatbot for learning	Automated Q&A, interactive simulations, real-time support for learners	PwC uses ChatGPT for training employees in a range of topics, providing instant responses to queries and fostering a self-paced learning environment.
Microsoft Viva Learning	AI-driven employee development	Integrated learning within Microsoft Teams, personalized learning content, insights on skill development	L'Oréal integrates Microsoft Viva Learning within their Teams platform to deliver a seamless learning experience to employees across departments.
Udemy AI-powered Learning	Custom training programs	AI-generated recommendations, real-time feedback, personalized learning paths	Uber utilizes Udemy's AI-powered learning system to customize training programs for employees, helping them develop the skills needed for their roles.
Docebo AI	AI-based Learning Management System (LMS)	Automated content curation, personalized training paths, analytics to track learning effectiveness	Siemens uses Docebo to create personalized learning paths for employees, improving training efficiency and employee performance across global teams.

7. Ethical Considerations in AI-Driven Training Programs

- The AI training system should guarantee that the employee data is stored safely and used in an ethical manner to preserve privacy, confidentiality, and adherence to the applicable data protection laws.
- Algorithms are to be reviewed on a regular basis to remove bias that will provide opportunity of fair and inclusive training to all employees irrespective of their background, gender, age, and other disparities.
- The AI processes need transparency with clear communication as to how the information about employees is used to make the training decision or why the individualized learning recommendation is made.
- To prevent any violations, organizations have to inform the employee on the type of data they gather, its purpose, and the purpose of AI in training.
- AI systems must be accompanied with human supervision to offer moral values, emotional intelligence, and situational decision-making during the training and evaluation process.
- Training produced by AI should be made equally available to every employee and meet the technological gap and make sure that none of them is left out without digital literacy.
- Businesses should not be allowed to escape responsibility of the consequences of the AI generation, but attribute mistakes, bias, or undesirable effects and provide remedies.

8. Future Directions in AI-Driven Training Programs

The upcoming state of AI-based training programs will be more adaptable, intelligent and more engaging. Machine learning and natural language processing will enable the training systems to offer even more personal and context-related learning experience. Not only will AI be capable of tracking the progress, but also make sure that its learning needs are anticipated in the real-time offering proactive support and suggestions of the material based on the personally set objectives. Applying young technologies such as the augmented reality (AR) and virtual reality (VR) will elevate the training to a new level as it will create the illusion of a real-life environment and will make the training more vivid and functional. It may also be integrated with emotion AI and sentiment analysis that will evaluate the motivation and mood

of the learner and respond to emotional signals during the training. Team based learning with the help of AI collaboration would also help to improve communications and soft skills in addition to technical growth. Considering the proximity to the ethical issues, the new generation of AI is likely to be equipped with the intrinsic fairness and transparency, which will ensure responsible and inclusive training of diverse workforces. Overall, AI-based training is being reshaped to be more holistic, responsive, and his personal approach to the world that allows individuals and organizations to survive in a rapidly changing environment.

Conclusion

Training programs grounded in AI introduce the revolution to the concept of employee development because they combine customization of learning, immediate feedback, training based on skills, and automation. The programs constitute an individual learning experience, which depends on the job description, skills, and rate of learning, and this will enhance the interaction and accelerate the possibility of remembering. The immediate feedback will help the employees to correct themselves instantly so that they could be within the scope of learning and development. It may also be applied to efficiently upskill the workforce with AI that determines the gaps in skills and presents specific training to the employees. The simple operations of allocating courses, monitoring progress, etc. are operationalized and, therefore, the HR does not have to fit the administrative burden enabling the L&D department to focus on strategic planning.

To ensure the advantages of AI are maximized, the organizations will have to invest in intensive AI compatible training infrastructure including the right technologies and platforms. It should be noted that the tools should be easy to use in order to ensure the adoption and subsequent interactions. Ethical issues and concerns are to be mitigated with periodic auditing of algorithmic processes, especially on AI bias and to satisfy both a non-discriminatory and inclusive training experience. The greatest is that AI should be seen as an aiding factor, and not a replacement of human trainers. Despite the advantages of AI and the presentation of relevant data and efficiency, it is necessary to mention the fact that the human factor is crucial in the industry of mentoring, emotional intelligence and personal direction. When used appropriately, the opportunities of AI training can lead to effective, scale-based, and future-based training of employees in different organizations.

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