



SUPER ARTIFICIAL INTELLIGENCE TECHNOLOGIES IN KNOWLEDGE ADMINISTRATION

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Abstract

This research study examines artificial intelligence strategies used in the field of educational administration. The author discusses intelligent learning systems in this article. Expert systems that are integrated into the design of platforms for online learning are given special consideration. The elements of intelligent systems that allow for the organization of an optimum digital learning process are highlighted. As an example, the establishment of an interactive training project aimed at the successful acquisition of knowledge by students attending philosophy courses, as well as the improvement of the quality of this knowledge, is offered. Design and development of software required constructing and managing online platforms; systematic methodology, including databank formation and classification of data; and approach to intelligent data processing to activate interactive learning models are among the project implementation approaches.

The goal of this study was to see how Artificial Intelligence (AI) might affect schooling. The study's scope was limited to the use and effects of AI in administration, instruction, and learning,

based on a narrative and framework for analyzing AI identified through preliminary investigation. A qualitative research approach was adopted, which effectively assisted the accomplishment of the study objective by leveraging the utilization of literature review as a research design and approach. Artificial intelligence is a field of study that has resulted in computers, machines, and other artefact having human-like intelligence defined by cognitive capacities, learning, adaptability, and decision-making capabilities. According to the findings, AI has been widely accepted and employed in education, notably by educational institutions, in various forms. AI began with computers and computer-related technologies, progressing to web-based and online intelligent education systems, and finally, the use of embedded computer systems in conjunction with other technologies, humanoid robots, and web-based chat bots to perform instructor duties and functions independently or in collaboration with instructors. Instructors have been able to accomplish improved quality in their teaching operations by using these platforms to handle various administrative responsibilities, such as evaluating and grading students' assignments more effectively and efficiently. On the other hand, because the systems rely on machine learning and flexibility, curriculum and content have been modified and individualized to meet the needs of students, fostering uptake and retention and so boosting the overall quality of learning.

Keywords:- Administration, Digital learning, Educational process ,Online platforms,

1.Introduction

Educational management in the modern era refers to a set of policies and practices aimed at increasing the quality of the educational process.



The efficacy of the methodologies used in the educational process, as well as the competence of the teachers themselves, determines the quality of the educational process today. Without tactics as an auxiliary to the structure of an educational system tailored by teachers, today's educational process would be unthinkable. The digitization of education as a tertiary activity is linked to instructional practices. In this way, digital education is becoming increasingly integrated into the larger trend of economic digitization. The digitization of the economy has an impact on all aspects of the educational system.

Artificial intelligence and machine learning techniques are essential components of modern school management. In this context, the educational industry is currently facing significant challenges as a result of the widespread usage of artificial intelligence. This includes not only professional skill redistribution, but also the quality of specialist training in the rising labour market. Based on the study of data-mining systems that may be used in the real educational process, new learning strategies have become the most in demand in terms of their usage in education. Educational administration is now a multi-vector process that includes economic, social, political, and high-tech growth vectors. In digital education, high-tech is becoming increasingly important. Furthermore, this process affects both technical and humanistic branches of study.

However, in addition to its benefits, the technologicalization of education has additional drawbacks. The author believes that the greatest danger to education's technological is its excessive standardization and formalism, particularly in the human sciences. As a result, in order to create a dynamic and engaging learning environment, projects with the qualitative

potential to change the teaching and learning process in the human sciences are critical. As an example, consider a project in which machine learning techniques relevant to the discipline of philosophy are used to create it. This is an interactive educational initiative intended at helping students learn philosophy more effectively and improve the quality of their knowledge.

2. Artificial Intelligence in Education: Development Trends and Thoughts

Artificial intelligence (AI) is a set of information technologies with intelligent capabilities that are based on large data and machine learning. It incorporates artificial intelligence into the field of education and optimizes educational development via the employment of essential technologies and intelligent tools in an intelligent education environment. The system encourages collaboration and integration between developing intelligent technologies and the education sector. In general, artificial intelligence's application in the field of education is constantly increasing and deepening, and the introduction of new concepts, methods, and ideas is bound to have a significant impact on educational reform.

2.1 Artificial intelligence techniques

1. AI-Related Techniques in AI Education Scenarios

2. Student and school evaluations-Academic Analytics, adaptive learning method, and individualized learning approach Paper and exam grading and evaluation

3. Computer vision- image identification, and prediction system Intelligent, personalized instruction

4. Intelligent education systems, learning Analytics, data mining or Bayesian knowledge interference

5. knowledgeable school- Face recognition, speech recognition, virtual labs, A/R, V/R, hearing, and sensing technologies are all examples of face recognition, speech recognition, and virtual labs.

5. Remote teaching through the internet and mobile devices-Real-time analysis, edge computing, and virtual tailored assistants

learner, teaching, and knowledge models) and intelligent technologies As demonstrated in Fig. 1, a model's contribution to the creation of a data map, which develops structures and association rules for acquired educational data, is critical for increasing learning. The model serves as the brain of an AI system, with technologies supplying the system's power.

2.2 The educational work that AI is capable of

A. Administration

Perform administrative duties that take up a lot of time for teachers, such as grading examinations and delivering feedback, faster.

Determine each student's learning styles and preferences, allowing them to create a customized learning plan.

Assist educators with data-driven work and decision assistance.

Give timely and straightforward comments and work with students.

B. Instruction.

Estimate how effectively a student will exceed expectations in projects and exercises, as well as the likelihood of dropping out.

Examine the syllabus and course materials to come up with personalized content.

Allow instruction to extend beyond the classroom and into higher education, so encouraging collaboration.

Adapt the teaching strategy for each student depending on their own information.

Assist educators in creating individual learning strategies for each student.

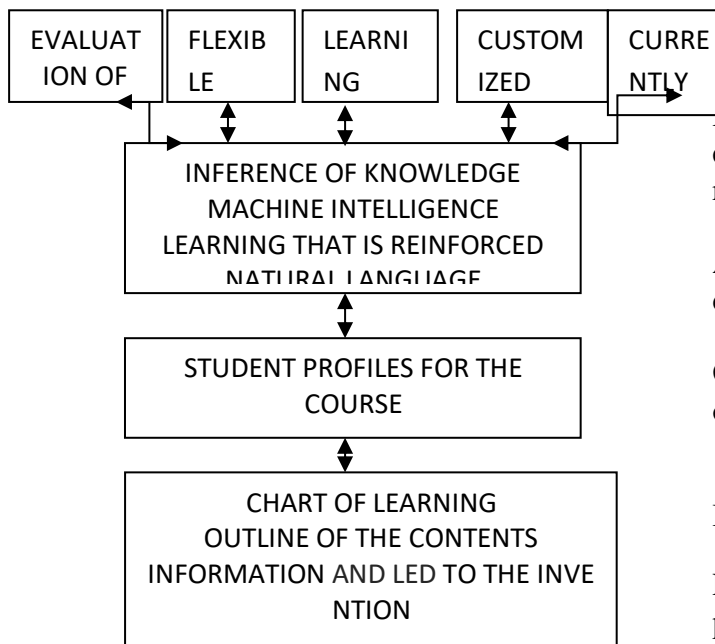


Fig 1 AI education has a technology foundation.

Based on machine learning, data mining, and knowledge models, many strategies are included into AI systems for learning analysis, recommendation, knowledge understanding, and acquisition. In general, an AI education system consists of teaching materials, data, and intelligent algorithms, which are classified into two categories: system model (which includes



C. Learning

Discover a student's learning weaknesses and address them early in their education.

Students' university course selection can be customized.

By analyzing data, you can predict each student's professional path.

Detect students' learning states and provide intelligent adaptive intervention.

3.The Use of Artificial Intelligence Technology in the Construction of Smart Campuses is Examined

Smart campus is a growing trend in educational information architecture, particularly with the extensive use of artificial intelligence technologies. Smart campus applications have substantially improved as a result of the development and promotion of the Internet of Things, mobile learning equipment, wireless network equipment, and smart software. The purpose is to build an education ecosystem, as well as to investigate the field of artificial intelligence's use in smart campus building and to suggest a transition strategy from smart campus to "smart" campus construction.

Educational information construction has become the driving force behind the new format of educational misinformation, from the initial application of modern information technology to the construction of smart campuses characterized by artificial intelligence, technological progress, and innovation [1]. Artificial intelligence is built on data, which is also wisdom. Campus

construction's "fuel." Big data, cloud computing, and other technologies are propelling artificial intelligence forward, as well as providing technical support for the development of "smart" campuses[2]. In his book "Schools and Society," American educator John Dewey proposed: The substantial advancement of social progress must have an impact on educational reform. There are gaps in the current educational environment and the development of modern information society, particularly the rapid development of Internet technology, which has resulted in the establishment of "smart campuses." Wisdom Artificial intelligence technology, which covers campus teaching, management, learning, life, and many other sectors, is at the heart of the campus. Artificial intelligence has made its way into campus, bringing new life to educational service models and promoting the multi-modal development of the "smart campus."

3.Artificial intelligence application fields in the "smart campus"

A. Artificial intelligence aids in the delivery of precise instruction

The reform of instructional work is the most significant influence of artificial intelligence technology on the "smart campus"[3]. "Fine" and "quasi" are examples of so-called "precision teaching." "Quasi" is the refining of knowledge, "spirit" is the refinement of knowledge. It is the consequence of students putting what they have learnt into practise. Precision teaching has become the standard for measuring the success of topic instruction in the classroom, as well as the basic guide for establishing efficient and interesting classroom teaching. Precision teaching stresses student-centered learning. As shown in Figure 1, this education concept is based on emphasizing teaching students based on



their aptitude, as well as measuring and recording students' learning behaviour, performances, and processes in order to analyse students' learning needs and optimize teaching content or teaching methods to meet those needs. As can be seen, "precision teaching" is based on the use of big data and artificial intelligence technology to alter and optimize instructional modes while also increasing teaching efficiency. Assess students' classroom engagement and concentration, and change teaching tactics to meet the needs of students' individualized teaching plans by identifying, recording, summarizing, and integrating learning behaviour.

Classroom behaviour analysis and emotion recognition based on facial expression recognition have already appeared in some cases, according to current developments. The Paris Business School, for example, used the artificial intelligence technology Nestor in two online courses in September 2017. Its working idea is to track students' eye movements and facial expressions using a computer network camera, and then evaluate the data obtained. In May 2018, a smart classroom behaviour management system was deployed in a secondary school in Hangzhou, India, to assess students' classroom participation and concentration. The system analyses classroom behaviour of students in the classroom environment and provides reference for teachers to carry out precise teaching and adjust teaching strategies.

Online teaching is another type of "precision teaching" approach. Artificial intelligence technology is also being utilized to design learning programme and exact services for learners, particularly in the current MOOC trend. As the largest organization in the field of artificial intelligence education, Knewton, for example, delivers personalized education,

continues to create adaptive education using AI, and employs adaptive learning technology to identify each student's knowledge gaps through data collecting. It can also perform a more in-depth analysis of the causes and make recommendations for improvement. Civitas Learning specializes in the selection of university-level independent courses. It forecasts the key patterns of learners' curriculum scores and attendance rates using machine learning technology.

B. Artificial intelligence helps people make better decisions.

The study of objective data ensures the correctness of decision-making. Artificial intelligence technology's rigour of logical operation thinking gives rational analysis for scientific decision-making and has become a significant technical technique to support decision-making. Traditional data-assisted decision-making, however, still has flaws as compared to artificial intelligence[4]. Traditional computing looks to be focused on the data-driven model and cannot go far into the neural reasoning stage. Artificial intelligence, which blends data-driven and knowledge-driven intelligence, can "from experience" emphasize knowledge-driven intelligence in India. For example, you can employ sensors to collect relevant data and construct a data analysis model using emerging technologies such as artificial intelligence (AI). It can deliver fast and dependable school management and teaching when combined with the features of the school. Opinions on intelligent decision-making. Future artificial intelligence might be described as a "smart brain" that will improve campus decision-making by leveraging its tremendous data processing, computation, and logical reasoning capabilities to provide schools



with scientific and visual decision-making resources.

C. Quantitative evaluation is aided by artificial intelligence.

Scientific and effective evaluation is the key to increasing educational quality in education and teaching practise. The existing evaluation approaches are primarily restricted to the analysis of educational large data, which limits their application. According to certain studies, adopting educational big data as the basis for evaluation will limit the accuracy of evaluation due to the unidirectional of data generation. Based on big data analysis, artificial intelligence technology will employ multi-modal machine learning technology to improve the assessment system and eliminate the one-sided problems that data mining has generated in the past.

To increase the accuracy of the assessment and reflect the evaluation object more accurately, multi-dimensional data alignment technology is used to process the evaluation acquired from the visual information database and the evaluation gained from the text information database.

Artificial intelligence technology has introduced modifications and innovation to the development of school informational in the context of the "Education Informational 2.0 Action Plan." Promote the modernization and transformation of the "smart campus" construction system, but focus on how to get there. What is the best way to exchange and distribute data? How can we encourage the management of several applications in a collaborative manner? To drive the constant development of the "smart campus" construction process, it is even more important to

find a deep integration of artificial intelligence and education.

Online education, as a growing trend in recent years, not only boosts students' learning passion, but also assists teachers in comprehending the situation. The education industry may greatly increase the quality of learning and provide a firm foundation for future development if it strengthens the construction of learning education space. online learning; education

With the advancement and growth of Internet technology, an increasing number of sectors have begun to incorporate Internet technology into their development plans. The impact of Internet technology, as the most important industry in society, is far higher than that of other industries. As a result, education should include modern Internet technologies in order to reform the educational system. As a prominent presentation of the contemporary artificial intelligence education model, the online learning education space has changed the single flaw of the traditional teaching model and considerably improved the quality.

4. Conclusion

As a result, the education industry should expand its research into the online learning education arena and strive to improve teaching quality on a continuous basis. However, when it comes to the current state of online learning and education space construction, most educational administrators are still unaware of the significance. in the context of artificial intelligence training When developing an online learning education, the developed education space model is inappropriate and does not fully match the learning classroom subject status [1]. However, when it comes to space building in



various educational institutions, the majority of system designers do not take the dominant position into account. The construction of space in the form of learning has an impact on learning efficiency and is not conducive to the establishment of an efficient online learning education space. As a result of the new teaching criteria, various educational institutions should develop learner major modules based on their own circumstances.

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