

education of children themselves, and make their world more interesting and accessible to understand.

Summary. We believe that this problem has two stages of solution: on the one hand, the right market can easily access the necessary VR equipment, because today there are many technical innovations that are publicly available. On the other hand, it is necessary to identify any opportunities to further improve the availability of specialized equipment, as this becomes a difficult task under martial law in Ukraine. However, a project team can be created to determine the specifics of ordering virtual reality applications for working with special children to show everyone that such children have the right and opportunity to live a full life.

References

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SOFTWARE OF DISTANCE EDUCATION

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Several platforms leverage Artificial Intelligence (AI) in education to enhance learning experiences, provide personalized support, and streamline educational processes. These platforms vary in their features, applications, and target audiences. Here are some notable AI education platforms:

Knewton Adaptive Learning Uses AI algorithms to personalize educational content for individual students.

DreamBox K-8 Math Education AI-powered platform that adapts lessons based on individual student progress and learning styles.

Cognii Intelligent Tutoring Provides an AI-powered virtual tutor with natural language processing for grading and feedback.

Quillionz Content Creation AI-powered platform assisting educators in creating content, generating questions, and quizzes.

Pearson's Aida Virtual Tutoring AI-powered virtual tutor providing personalized feedback, guidance, and assessments for learners.

Coursera Online Learning and Certification utilizes AI for personalized recommendations in courses, assessments, and projects.

Duolingo Language Learning Incorporates AI algorithms to personalize language learning experiences and provide real-time feedback.

Squirrel AI Adaptive Learning - AI-driven adaptive learning platform creating personalized learning paths for students.

EdSurge AI in Education News and Insights Provides information and insights on the latest developments and trends in AI in education.

Intelligent Tutoring Systems. Explore the role of AI in intelligent tutoring systems, which offers personalized guidance, feedback, and support to learners, fostering a more interactive and responsive learning environment.

Automated Assessment and Feedback. Discuss how AI software automates the assessment process, from grading assignments to providing timely and personalized feedback, contributing to more efficient and effective evaluation methods with the help of ALEKS (Assessment and Learning in Knowledge Spaces) software.

Personalization and Differentiation. Examine how AI contributes to the personalization of learning experiences, accommodating individual learning styles, preferences, and progress, leading to increased student engagement and understanding.

Enhanced Learning Analytics. Investigate the role of AI-driven learning analytics in providing educators with valuable insights into student progress, facilitating data-informed decision-making and intervention strategies.

Accessibility and Inclusion. Discuss how AI software can address accessibility challenges, providing support for diverse learners, including those with disabilities or language barriers, thereby fostering greater inclusivity.

Challenges and Considerations in Implementing AI Software in Distance Education. Examine ethical considerations related to the use of AI software, including issues of data privacy, algorithmic bias, and the responsible use of student data.

Technological Infrastructure. Address challenges associated with integrating AI software, including the need for robust technological infrastructure, adequate training for educators, and considerations for scalability.

Equity and Inclusion. Explore challenges related to ensuring equity and inclusion in the implementation of AI software, considering factors such as socioeconomic disparities and diverse learning needs [1].

Consider future trends and opportunities.

AI-Powered Content Creation. Discuss the potential for AI to generate and adapt educational content dynamically, offering a more responsive and personalized learning experience.

Virtual AI Assistants for Learners. Explore emerging trends in virtual AI assistants that provide learners with real-time support, answering questions, offering guidance, and facilitating interactive learning.

Professional Development for Educators. Propose strategies for providing educators with the necessary training and support to effectively integrate AI software into their teaching practices.

Collaboration and Stakeholder Involvement. Advocate for collaboration between educational institutions, policymakers, technology developers, and other stakeholders to ensure a holistic and inclusive approach to AI implementation.

Ethical Guidelines and Policies. Highlight the importance of establishing clear ethical guidelines and policies to govern the responsible use of AI software in distance education, prioritizing student privacy and equity.

AI Software VS Normal Software. The relationship between AI software and normal software in distance education lies in the capabilities and functionalities of each software type. Let's explore the key aspects of this relationship:

Functionality. Traditional or "normal" software used in distance education includes Learning Management Systems (LMS), video conferencing tools, content delivery platforms, and communication tools. AI software introduces advanced functionalities such as adaptive learning, intelligent tutoring, automated assessment, and personalized content delivery. AI enhances the learning experience by analyzing data, providing insights, and tailoring educational content to individual student needs.

Adaptability. Traditional software is designed to perform specific functions, such as hosting course materials, managing enrollments, or facilitating discussions. While these tools are valuable, they may not adapt dynamically to individual learner needs or provide personalized insights. AI software enables adaptability and personalization. It can analyze a student's performance, understand learning patterns, and adjust the learning experience in real-time.

Automation. Traditional software often requires manual input and management. For example, instructors may manually grade assignments, manage discussion forums, and organize course materials. AI introduces automation to various aspects of distance education. Automated assessment, feedback generation, and virtual tutoring are examples of how AI can automate repetitive tasks, allowing instructors to focus on higher-level aspects of teaching.

Data Analysis and Insights. Traditional software can generate basic analytics, such as tracking student participation or monitoring completion rates. These insights may be limited compared to AI-driven analytics. AI excels in data analysis, providing educators with detailed insights into student performance, and areas of improvement, which allows instructors to make decisions to enhance teaching strategies.

Personalization. Traditional software may offer some degree of customization, but it often lacks the ability to personalize the learning experience for each student based on their unique needs and learning styles. AI is designed for personalization. It can create adaptive learning paths, offer targeted feedback, and adjust content delivery to match individual student capabilities [2].

While normal software provides essential tools for managing and delivering content in distance education, AI software enhances these capabilities by introducing adaptability, automation, advanced analytics, and personalized learning experiences. The two types of software can complement each other, with traditional tools forming the foundation and AI technologies providing innovative solutions to enhance the overall educational experience.

References

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РОЛЬ ТЕХНОЛОГІЙ ШТУЧНОГО ІНТЕЛЕКТУ В ОСВІТІ

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У цифрову епоху, коли технології пронизують кожен аспект нашого життя, освіта є галуззю, що дозріла для інновацій. Штучний інтелект (ШІ), з його здатністю обробляти величезні обсяги даних, розпізнавати закономірності та робити прогнози став трансформаційною силою в освіті. Від персоналізованого навчання до автоматизації адміністративних завдань – штучний інтелект змінює ландшафт освіти, пропонуючи величезний потенціал для покращення освітніх результатів у всьому світі [2].

Однією з найважливіших ролей ШІ в освіті є його здатність забезпечувати персоналізований навчальний процес. Традиційні класні кімнати часто намагаються задовольнити різноманітні потреби окремих учнів. Однак освітні платформи зі штучним інтелектом можуть аналізувати навчальні патерни, вподобання та слабкі сторони кожного учня, щоб надавати персоналізований контент і рекомендації. Це не лише сприяє кращому розумінню та запам'ятовуванню матеріалу, але й допомагає студентам навчатися у власному темпі.

Крім того, штучний інтелект сприяє адаптивним системам навчання, які коригують контент і рівні складності залежно від прогресу учнів. Такий адаптивний підхід гарантує, що учні постійно отримують нові завдання, не відчуваючи при цьому перевантаження чи нудьги. Пристосовуючись до індивідуальних стилів навчання і здібностей, ШІ сприяє підвищенню ефективності та результативності навчання.

Ще одним важливим аспектом застосування штучного інтелекту в освіті є його роль в автоматизації адміністративних завдань. Заклади освіти мають справу з величезними обсягами даних, починаючи від записів про студентів і закінчуючи навчальними матеріалами. Системи зі штучним інтелектом можуть спростити такі адміністративні процеси, як виставлення оцінок, складання