ARTIFICIAL INTELLIGENCE FOR EDUCATION AND TEACHING SYSTEM

Chhatrasal Research Scholar Shri Krishna University, Chhatarpur (M.P.)

Dr. Qaim Mehdi Rizbi Supervisor Shri Krishna University, Chhatarpur (M.P.)

ABSTRACT

With the advancement of science and technology in recent years, artificial intelligence has begu to play an important role in many fields of knowledge. The use of this technology has been developed over two millennia to give computers the ability to think and act like humans. Artificial intelligence is used to support the delivey of education and support the development of skills and teaching. In education, teachers need to use audio devices, graphics, personalization, fingerprint recognition, smart home, etc. To ensure that the teaching process works well. They need to have a good understanding of smart devices such as Automated technology in teaching; It includes smart classrooms, robots and other smart teaching tools. Based on this background, this project aims to integrate knowledge and learning into the classroom to find interested students and teach them better.

KEYWORDS

Artificial Intelligence, Education, pedagogical skills, cognitive skills

INTRODUCTION

The development of intelligence technology has been encouraged in recent years. This has spread to research, education, business and many other areas around the world. Artificial intelligence has also enriched people's lives and changed the way they view the world. It opens new ways to teach and help students acquire new skills and lifestyles. Intellectual resources and tools such as digital text, video, images and sound play an important role in many fields. It helps to acquire rich emotion such as imagination, imagination, creativity. This will develop their imagination, digital skills, art skills, intelligence, photography skills, etc.

It provides a new platform for them to learn to expand. Artificial intelligence has become an incredible part of our daily lives. It teaches and helps us how to work and learn. Artificial intelligence brings new opportunities to students of all ages. Additionally, AI can help identify gaps in learning and provide educational and digital plans to make teaching more efficient and effective. Includes international education.

वर्ष-1, अंक-3, अप्रैल - जून 2024

E-ISSN: 2584-2900

USE OF ARTIFICIAL INTELLIGENCE IN TEACHING

It is difficult for traditional teachers to understand natural phenomena and life in the classroom. However, pictures can now be shown and explained to students by using artificial intelligence in teaching. They can see animated images and videos that help motivate students to enjoy learning. Today, the application of artificial intelligence in education will change the way knowledge is taught, disseminated and acquired and will initiate the education revolution. Versatile integration helps students acquire different knowledge from self-learning so that they can learn independently. The intellectual equipment used by teachers is the first mobile APP teaching for teachers and the second is an online education platform. Some teachers use automatic homework markers in teaching. The lesser use of artificial intelligence, combined with the future widespread introduction of smart products such as smart classrooms and robot assistants, shows that the creation of smart products in education and training is not mature enough and teachers are not sufficiently equipped. training on its use. .AI tools and other AI applications are likely to increase in the future.

TEACHERS' PERCEPTION ABOUT ARTIFICIAL INTELLIGENCE

The main intention of implementing of AI in education is to improve the quality of education and teaching, and also to expand the amount of information in classroom teaching. Comparatively, the use of AI to teach can greatly enhance and also change the percentage of information that students receive is high than teaching through the traditional methods. It is visible that after the arrival of AI, teaching becomes more interest, rich and more complete. Usually in traditional classroom, the teacher teaches only the key points of each particular concept. From that teacher couldn't find whether students understood the concept or not. But after the usage of AI in teaching, teacher could explain the concepts through virtual modes. So that students can learn with interest and the results also has changed. A large number of practical examples can be demonstrated and showed by using AI, which can break the difficulties in the teaching learning process.

APPLICATIONS OF AI IN EDUCATION

AI in education has multiple benefits to streamlines various tasks and makes the learning process hasslefree.

- 1. Personalized lesson plans for teachers
- 2. Virtual content creation
- 3. Task automation
- 4. Customized feedback
- 5. Vocal AI assistance
- 6. Centralized learning systems
- 7. Examinations systems

AI BASED APPLICATIONS

AI applications in education are help to transform the learning of students by offering an adaptive learning experience according to their individual abilities and requirements. Few of the AI based applications are as follows:

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E-ISSN : 2584-2900

GOOGLE CLASS ROOM

Google Classroom is a well-known tool that incorporates artificial intelligence to simplify teaching issues. Its programming allows teachers to create and assign assignments to students, provide instant feedback on assignments, and facilitate effective class discussions. GPA in Google Classroom provides personalized recommendations for course materials and analyzes student data to provide insights into performance and development. Employee learning outcomes and knowledge discovery. Google Translate has no language barriers, providing instant text, web, and even spoken translation for students who lack confidence in their language skills. Google Scholar is also useful for researchers looking for resources related to their research direction.

DUOLINGO

Duo lingo is a great language learning app that uses artificial intelligence to create simple language courses. It helps to change the content of the course according to the student's learning level. The app provides personalized lessons, activity tips and interactive sessions to support language learners and improve their language skills. Artificial intelligence helps students with special needs by providing access to high style by providing speech recognition, speech feedback, and generating detailed information based on the student's grade

COURSERA

Coursers is a platform that supports online learning. There are many online courses available at various levels. Through personalized recommendations, learning transitions, and technology assessments, students can receive valuable advice and timely feedback.

BENEFITS OF AI IN TEACHING AND LEARNING

There are numerous benefits of AI in education sector are as follows:

- Helping individual to learn at their own speed
- Fulfillment of individual's need in education
- Providing solutions to the educational problems
- Reduce paper works
- Time saving
- Quality of education
- Make work ease and efficient
- Helps in decision making with fast data analysis
- Digitalized lesson plan
- Effective learning methods using different learning analysis
- Help to train in smaller groups with effective teaching plan
- More effective individual learning process
- Helping in policymaking

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वर्ष-1, अंक-3, अप्रैल - जून 2024

E-ISSN : 2584-2900

CONCLUSION

Artificial intelligence is the brainchild of the smart age. In order to make aware and use of the applications of AI, some universities offer artificial intelligence courses to lead the trend of the times. It is the concern of each and every teacher to understand the benefits of AI and how to use in an effective way to practice as a familiar skill. It is proven term that the advancement of educational technology will bring a dramatic changes in the field of educational sector. Undoubtedly, the most popular artificial intelligence products has brought a certain impact on traditional education and shows a path to overcome the barriers facing in the same. Understanding and using smart devices such as voice assistants, image recognition, fingerprint recognition, smart buildings are issues that teachers are concerned about. The effect of teachers' own knowledge is to reduce teaching effort and improve material knowledge. Artificial intelligence and teacher development are interrelated

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