ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-515-x, Impact Factor: 9.23

American Academic publishers, volume 6, issue 01,2026

Journal: https://www.academicpublishers.org/journals/index.php/ijai

INFLUENCE OF PLATFORMS ON THE QUALITY OF EDUCATION IN THE ASSESSMENT OF STUDENT KNOWLEDGE IN DIGITAL EDUCATION (on the example of assessing independent learning tasks)

Auezova Rano Kalknazarovna

Uzbekistan, Nukus city

Basic doctoral student of Nukus State Pedagogical Institute

E-mail: auezovarano1985@gmail.com

Abstract

This article analyzes the impact of platforms on the quality of education in assessing students' knowledge in digital education. The study analyzes the types of assessment in digital education, the possibilities of improving the quality of assessing students' knowledge through platforms and artificial intelligence, as well as the pedagogical and didactic possibilities of digital technologies, their service to increase students' knowledge, effective control of learning, and individualization of the educational process. As a result of the use of digital platforms, the effectiveness of teaching methods has increased, which will have a positive impact on the learning outcomes of students.

Keywords

digital educational platforms, professional education, quality of education, pedagogical technologies, didactic opportunities, student learning, educational process, digitalization, artificial intelligence, Python program, students and platforms.

Introduction

The development of digital technologies has a significant impact on the modern education system. In particular, the introduction of digital educational platforms in professional educational institutions creates great opportunities not only for making educational processes interactive and flexible, but also for improving the quality of education. Digital educational platforms allow not only to expand educational resources, but also to provide new ways of conveying knowledge, which significantly simplifies and increases the effectiveness of the learning process for students and teachers[1].

METHODOLOGY

Improving the quality of education depends on the opportunities provided by digital platforms. For example, if in traditional educational processes teaching is mainly limited to classrooms and laboratories, then with the help of digital platforms, teachers will have the opportunity to teach students remotely, use various multimedia content, and monitor the results in real time.

Analysis of scientific literature shows that the widespread introduction of digital educational platforms is giving rise to new approaches to education, including an individual approach, personalized teaching methods, and automated assessment systems. Through these

ORIGINAL ARTICLE
INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE
ISSN: 2692-515-x, Impact Factor: 9.23
American Academic publishers, volume 6, issue 01,2026
Journal: https://www.academicpublishers.org/journals/index.php/ijai

methods, it becomes possible to create an educational process suitable for each student. At the same time, it is possible to introduce transparent and accurate assessment systems of the educational process through digital platforms, which is an important factor in improving the quality of education[2].

Reasons for choosing a topic and its problem. In the field of education in digital technologies, the effective organization of the educational process, as well as the assessment of students' independent work assignments, is manifested as an important problem. Currently, assessment using digital platforms is poorly implemented in many educational institutions. Adaptation of students and teachers to new technologies, problems related to infrastructure, and insufficient qualifications of teachers are considered important problems in this area. Also presented are the problems of correct assessment of students' independent learning tasks and their current solutions.

Purpose and objectives of the research. The main goal of this study is to determine its impact on the quality of education using software platforms based on artificial intelligence and python when checking students' independent work assignments in digital education and to improve methods for their implementation.

Research objectives:

- Use software platforms based on a fuzzy model (through AI) in assessing students' independent work assignments in the digital learning process and identify its advantages.
- Study of the experience of students and teachers in using a digital platform based on a fuzzy model (through AI) in assessing students' independent work assignments.
- Assessment of the influence of digital platforms on the quality and effectiveness of education when assessing students' independent work[3,4].

The novelty or significance of the research. Although numerous studies have been conducted on assessment on digital educational platforms, this article introduces innovation by analyzing their comprehensive impact on the quality of education, including the possibilities of interactivity, self-monitoring, and individual approach, as well as examining students' independent learning tasks based on the created platforms.



Figure 1. Assessment Integration between Student, Artificial Intelligence (AI) and Teacher grades.

The following methods were used in the study:

Literature review: Scientific articles and statistical data on student assessment related to digital platforms were studied.

Survey: A survey was conducted among students and teachers on the effectiveness of digital platforms.

Trial: During the lesson, a check of independent work assignments using digital platforms was organized, and the results were compared with traditional methods.

ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-515-x, Impact Factor: 9.23

American Academic publishers, volume 6, issue 01,2026

Journal: https://www.academicpublishers.org/journals/index.php/ijai

Results: The results of the study showed that the use of digital platforms, as well as the independent study by students of loading assignments and receiving appropriate grades through the platform by personally uploading independent educational work to the platform, affects the quality of education as follows:

Table 1

Increases activity:	Students, having mastered the materials on the topic of independent study in more depth, try to upload independent work assignments to the platform according to the criteria requested by the teacher, which will further activate students' interest in the lesson.
Individual approach:	Each student is given the opportunity to upload an accurately verified and perfectly developed copy of the requested information on the topics of individual independent work using relevant literature.
Self-control:	Based on the established criteria, students will be able to personally work on the topics of independent work assignments, upload them through the platform, and receive appropriate points.
No time and space restrictions	The platform will be able to remotely select independent work assignments in the subject and receive appropriate grades remotely.
Learning effectiveness:	According to the tested results, students said that they passed 30 percent more effectively in assessing their knowledge of independent work using digital platforms.

We are talking about student assessment through a platform based on a fuzzy model created under the name "Independent work evaluation AI." This platform is designed to check the independent work assignments of higher education students based on the criteria specified by the teacher. In this case, the student personally enters the login password (in English, Russian, and Uzbek) and uploads the relevant information to each section[5].

ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-515-x, Impact Factor: 9.23

American Academic publishers, volume 6, issue 01,2026

Journal: https://www.academicpublishers.org/journals/index.php/ijai

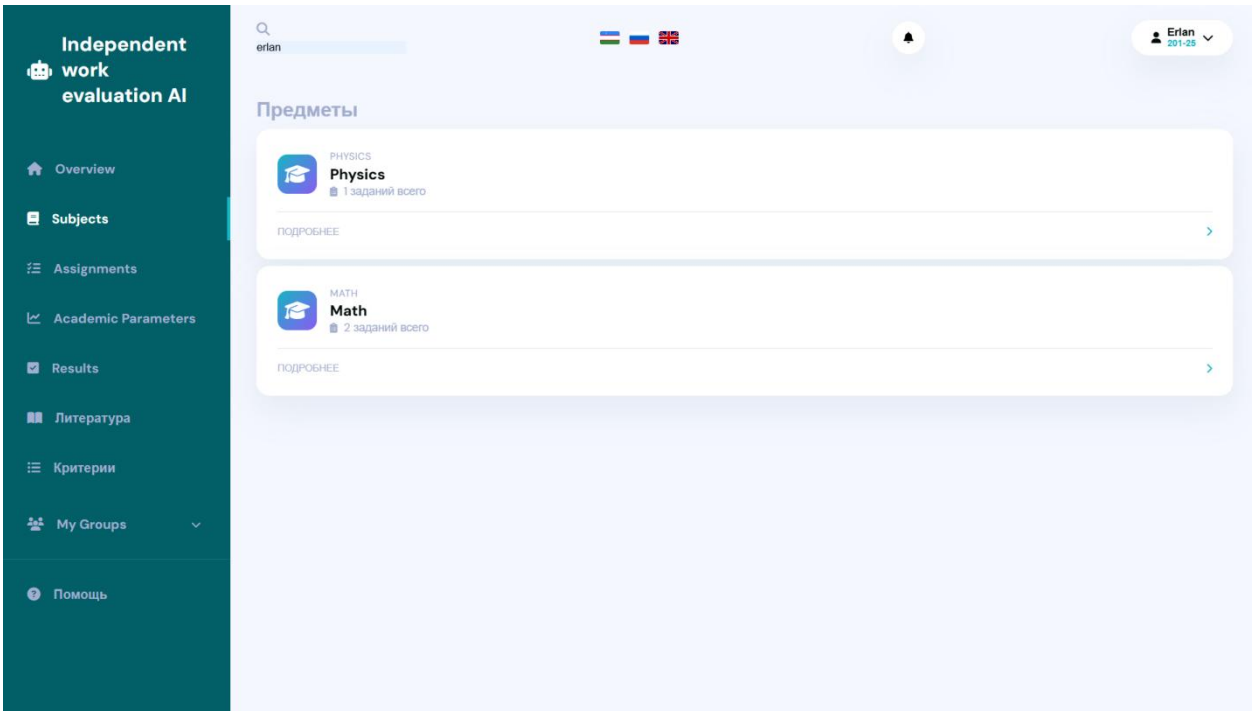


Figure 2. Program Title.

The homepage has a simple and understandable interface, allowing quick access to the main sections. The student can use the information on the main page for their needs, which increases efficiency. The most important sections on the platform (class titles, results, criteria, my group, e-library, helpful guide about the platform) are opened with a single click on the platform page. Here is information about loading independent learning, student results, and news. The ability to upload independent work assignments for any subject by selecting the subject name is very important for users.

Independent Work Assignment Development Department

In universities and institutes of higher education, students previously submitted independent work assignments to teachers on paper, went directly offline, and encountered misunderstandings in obtaining appropriate grades, which took up more time for students. On the platform we created, students can download independent learning tasks remotely by entering their personal login password based on the criteria shown below by the teacher and receive appropriate grades within minutes. It is also possible to upload tasks to this platform using materials in the form of docx, pdf, pptx, video, audio, tests, and graphics. Can download verified data in PDF, DOCX, or PPT formats. Such a digital assessment of students is constantly updated in accordance with modern trends and new educational standards. The requirements (criteria) for independent work assignments on the platform are:

1. Checks for antiplagiarism (AI);
2. Relevance;
3. Studiedness;
4. Mathematical modeling;
5. Algorithm;
6.Block diagram (picture, graphics)
7. Conclusion;
8. References.

ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-515-x, Impact Factor: 9.23

American Academic publishers, volume 6, issue 01,2026

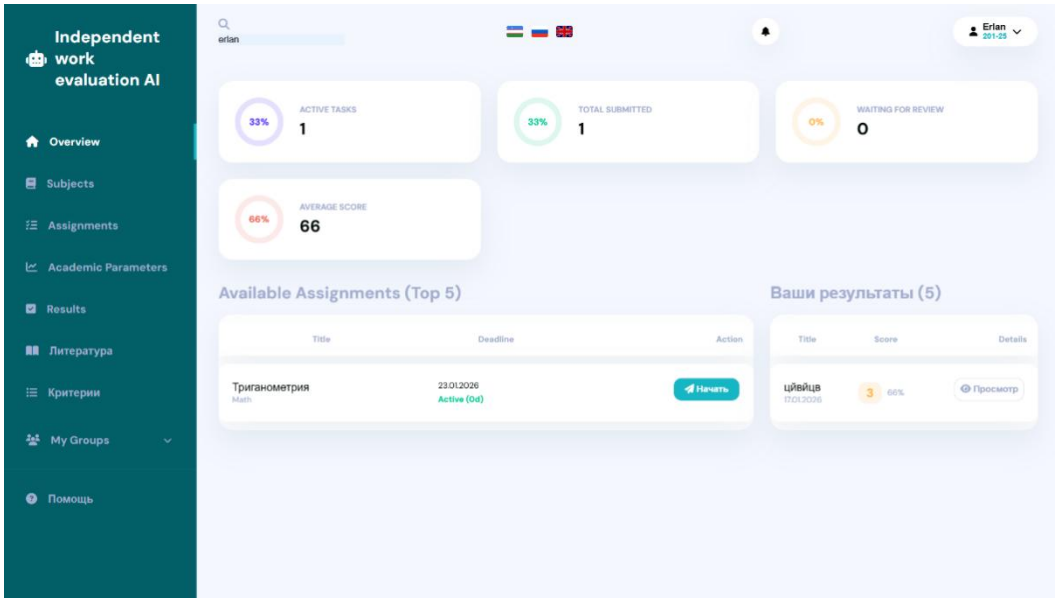
Journal: https://www.academicpublishers.org/journals/index.php/ijai

These criteria reflect a broader trend towards assessment in higher education, where artificial intelligence not only reshapes content delivery and student engagement but also redefines assessment practices. The integration of artificial intelligence tools into programming education provides new opportunities to increase the effectiveness of assessment, ensure consistency, and support personalized feedback. Using advanced models of artificial intelligence, such as Gemini 2.5, teachers can begin automating certain parts of the assessment process while maintaining pedagogical quality and control[6].

Figure 3. Section for loading students' independent work assignments.

How to upload students' independent work assignments to the platform.

On the "Independent work evaluation AI" platform, university students enter their personal login password. Students can see that the subject name is selected from the main page, and the date and date of acceptance of independent work assignments by the subject teacher are indicated. If a student doesn't know the sequence of uploading independent work assignments, they can learn by



going to the "Help" section on the left side of the home page. The requirements (criteria) according to which the teacher accepts independent work assignments are indicated by students in the form of a bell, and the student can click on it once. They upload their assignments based on the requested requests, and within 5-10 minutes, the assignments are checked by the AI, and the results are displayed in the platform window. Here, the student receives information about how many percent of their independent work assignments they answered correctly. If the score is below 60% (60%), then there is an opportunity to thoroughly review the independent work assignment, correct the errors, and upload it again. If the student scored above 60 percent (60%), but is dissatisfied with this score and has time to retake the exam, then the student can correct the errors and drawbacks and upload again.

Intellectual evaluation and feedback. Such AI-based assessment systems will activate assessment and provide personalized feedback, improve student comprehension and performance, and reduce administrative burdens on teachers.

Assessment on digital platforms not only makes the learning process interactive and convenient, but also creates some limitations. For example:

ORIGINAL ARTICLE

INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE

ISSN: 2692-515-x, Impact Factor: 9.23

American Academic publishers, volume 6, issue 01,2026

Journal: https://www.academicpublishers.org/journals/index.php/ijai

Technological infrastructure: In a number of regions, there are problems with the internet and technological devices. Teacher Professional Development Teachers cannot always fully utilize digital technologies.

Adaptation difficulties: Assessment of students on platforms - the level of their mastery requires quick adaptation to the digital environment. However, it was found that the positive aspects of digital platforms outweigh the negative ones. In the future, it is necessary to expand the technological capabilities of digital educational platforms and improve the qualifications of teachers[7].

Practical recommendations:

- To ensure the responsible use of AI in assessment, educational institutions must:
- Implement hybrid assessment models where artificial intelligence provides initial scores that are reviewed or moderated by teachers.
- Provide students with transparency about how to use AI tools and, if necessary, provide consent.
- Periodically check the accuracy of the assessment in artificial intelligence, especially in high-level conditions, in relation to human assessments.

Conclusion

The creation of assessment systems on digital educational platforms is an important tool for improving the quality of education. They ensure that the learning process is interactive, flexible, and convenient. The research results show that the use of platforms in assessing students' subject assignments on digital platforms increases the effectiveness of education and improves the educational process. Therefore, it is very important to further expand the implementation of these platforms and develop strategies for their application.

REFERENCES:

1. Čep, A.; Bernik, A. ChatGPT va oliy ta'limda sun'iy intellekt: Sun'iy intellekt tomonidan qo'llab-quvvatlanadigan adabiyotlar sharhi. *Intellektual hisoblashda* ; Arai, K., Ed.; SAI 2024; Tarmoqlar va tizimlar bo'yicha ma'ruza matnlari; Springer: Cham, Shveytsariya, 2024; 1018-jild. [**Google Scholar**] [**CrossRef**]
2. Beese, J. AI va shaxsiylashtirilgan ta'lim: Zamonaviy ta'lim maqsadlari bilan bo'shliqni bartaraf etish. *arXiv* **2019** , arXiv:2503.12345. [**Google Scholar**]
3. Tseng, EQ; Huang, PC; Hsu, C.; Wu, PY; Ku, CT; Kang, Y. CodEv: Izchil va konstruktiv fikr-mulohaza uchun katta til modellaridan foydalanadigan avtomatlashtirilgan baholash tizimi. 2024-yilgi IEEE Katta ma'lumotlar bo'yicha xalqaro konferensiyasi (BigData) materiallarida, Vashington, Kolumbiya okrugi, AQSh, 2024-yil 15–18-dekabr; 5442–5449-betlar. [**Google Scholar**] [**CrossRef**]
4. Cisneros-Gonsales, J.; Gordo-Herrera, N.; Barsiya-Santos, I.; Sánchez-Soriano, J. JorGPT: Katta tilli modellar (LLM) bilan dasturlash topshiriqlarini o'qituvchi ko'magida baholash. *Kelajak Internet* **2025** , *17* , 265. [**Google Scholar**] [**CrossRef**]
5. Auezova Rano. Raqamli ta’lim muhitida OTM talabalarning mustaqil ishlarini baholashda qat’iymas matematik modellashtirish metodining ahamiyati,- Innovaciyalíq texnologiyalar universiteti Respublika miqyosidagi ilmiy-amaliy anjuman materiallari to‘plami “Zamonaviy ta’limni rivojlantirishda raqamli texnologiyalarning o‘rni:

muammo va innovatsion yechimlari” Nukus, 23-24-oktyabr 2025-y 61-63b

ISSN: 2692-515-x, Impact Factor: 9.23
American Academic publishers, volume 6, issue 01,2026
Journal: https://www.academicpublishers.org/journals/index.php/ijai

6. Auezova R.K. FORMATION OF THE STRUCTURE OF THE ALGORITHM FOR ASSESSING THE KNOWLEDGE OF UNIVERSITY STUDENTS BASED ON FUZZY-DETERMINISTIC ALGORITHMS. Science and Education in Karakalpakstan *ISSN 2181-9203* №3/1 (50)2025,439-443
7. Р. К. Ауезова. ПОВЫШЕНИЕ ИНФОРМАЦИОННОЙ ГРАМОТНОСТИ И ФОРМИРОВАНИЕ ИНФОРМАЦИОННОЙ КУЛЬТУРЫ СТУДЕНТОВ В СРЕДЕ ДИСТАНЦИОННОГО ОБУЧЕНИЯ- Мактабгача ва мактаб таълими, 2025/7-403-406b