

**ARTIFICIAL INTELLIGENCE IN EDUCATION:  
ASSISTANT OR COMPETITOR FOR TEACHERS**

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**Abstract:** This thesis explores the rapid usage of AI in education and its influence on teachers and students, analyzing whether it can serve as an assistant to make tasks easier and learning process more productive or can pose a threat to their jobs. Artificial Intelligence is a very beneficial tool for teachers to check the homework and to come up with creative activities and prepare fun games and videos to make the lessons much more interactive, making much more free time to prepare hand-outs or activities beforehand. Since technology has become developed every student has a great interest in AI-powered tools, not using them and engaging them during lessons would lead teacher to organize very mundane traditional classes. This thesis concludes that although AI tools are highly important and beneficial for education, they cannot fully replace human teachers because of the lack of human factors such as emphasis, emotion and endless kindness.

**Аннотация:** Данная работа исследует быстрое использование искусственного интеллекта (ИИ) в образовании и его влияние на учителей и студентов, анализируя, может ли он служить помощником, облегчая выполнение задач и делая процесс обучения более продуктивным, или же представлять угрозу для их рабочих мест. Искусственный интеллект является очень полезным инструментом для учителей: он помогает проверять домашние задания, придумывать творческие занятия, готовить игры и видео, делая уроки более интерактивными и освобождая больше времени для подготовки раздаточных материалов и дополнительных активностей. Поскольку технологии стремительно развиваются, каждый студент проявляет большой интерес к инструментам на базе ИИ; их игнорирование и отказ от использования на уроках приведёт к организации скучных традиционных занятий. В заключение отмечается, что, хотя инструменты ИИ чрезвычайно важны и полезны для образования, они не могут полностью заменить человеческих учителей из-за

отсутствия таких человеческих факторов, как акцент, эмоции и бесконечная доброта.

**Annotatsiya:** Ushbu tadqiqot ta'limda sun'iy intellektning (SI) tezkor qo'llanilishi va uning o'qituvchilar hamda talabalar faoliyatiga ta'sirini o'rganadi. SI vazifalarni yengillashtiruvchi yordamchi sifatida xizmat qilishi, o'quv jarayonini samaraliroq qilishi yoki o'qituvchilarning ishiga tahdid solishi mumkinmi — shular tahlil qilinadi. Sun'iy intellekt o'qituvchilar uchun juda foydali vosita bo'lib, u uy vazifalarini tekshirish, ijodiy mashg'ulotlar o'ylab topish, qiziqarli o'yinlar va videolar tayyorlashda yordam beradi, bu esa darslarni yanada interaktiv qiladi va oldindan tarqatma materiallar yoki mashg'ulotlarni tayyorlash uchun ko'proq vaqt ajratishga imkon beradi. Texnologiyalar rivojlanganidan beri har bir talaba SI vositalariga katta qiziqish bildiradi; ularni dars jarayonida ishlatmaslik o'qituvchini zerikarli an'anaviy mashg'ulotlar tashkil etishga majbur qiladi. Ushbu tadqiqot xulosasiga ko'ra, SI vositalari ta'lim uchun juda muhim va foydali bo'lsa-da, ular o'qituvchilarni to'liq almashtira olmaydi, chunki ularda urg'u, hissiyot va cheksiz mehr kabi insoniy omillar yetishmaydi.

**Keywords:** Artificial intelligence (AI), teacher, education, technology, lessons, classes

### **Literature review**

The significant improvement of AI has led so many industries and jobs transform their way of working differently. It is also relatable to education, helping teachers use grading software systems, intelligent tutoring, homeworking checking apps. All these advancements come in handy for all teachers to advance learning process with personalized instructions, automating routine tasks, and offering real-life feedback.[1] Nevertheless, the integration and adaptation of AI leads to questions and worries among educators. Their great fear is that “Can teaching be replaced by Artificial intelligence?” or data privacy and algorithmic bias and therefore these issues should be tackled carefully. [2] The benefits of learning knowledge and skill acquisition and collaboration developed in the learning atmosphere, what is more there are many more resources available to conduct research because of AI tools. These increases promise a beautiful and prospective future in which AI can revolutionize education to provide extra help and needs, thereby creating new opportunities to gain knowledge and skills to be improved.[3] Artificial Intelligence will change teaching, it will not take your jobs. Additionally, despite the rise of automation, teaching continues to be one of the most appreciated and stable human professions in our economy. [4]

### **Methodology**

This thesis uses a descriptive and analytical approach to using AI in education. Data is collected from academic articles, reports and examples of AI tools in classrooms (grading apps, tutoring systems, lesson planners). Analysis is done by

thematic comparison of AI as a helper (reducing workload, enhancing creativity) and as a rival (risk of replacement, privacy concerns).

As the world is developing day by day, Artificial Intelligence has become integral part of almost every field like banking, medicine, engineering, and including education and specifically STEM areas. AI encourages learning process of every student and teacher by creating opportunities to make lesson plans, organize interactive activities and grade students easily and immediately making learning efficient, engaging and accessible for each user depending on their own needs without facing any difficulties. Students tend to say that AI often helps them complete course work, simplify complex themes and come up with interesting ideas to make project work and presentation. For instance, AI can simply explain complicated topics when needed and if you ask for feedback or fair grades, it can instantly do that which can boost your productivity and motivation. As for teachers, Artificial Intelligence allows them to avoid administrative and repetitive tasks and make meaningful teaching time. Today teachers have access to different types of AI tools to integrate in their classes which can help them to use based on their own and students' level and needs. Some of them are given below:

Tool	What it does?
ChatGPT, Copilot	Generates lesson ideas, explanations tailored to student levels
MagicSchool	Designed for educators- creates rubric, activities, lesson plans, songs and feedback
Curipod	Turns topics into interactive and colorful presentations and slides automatically
Canva Magic Write	Helps design visually engaging posters, worksheets, and presentations, and invitations to school parties and events
Gradescope	Uses AI to speed up grading and provide consistent feedback
Quizziz, Kahoot AI	Creates adaptive and attractive quizzes and evaluate students' performance
ClassPoint, Eduaide.AI	Integrates with PowerPoint to make lessons interactive and personalized
Elicit, ScholarAI	Summarizes academic papers and helps teachers prepare research-based lessons.
Grammarly, QuillBot	Improves grammar, clarity, and tone in student writing and checks plagiarism and copied texts (works as AI detector)

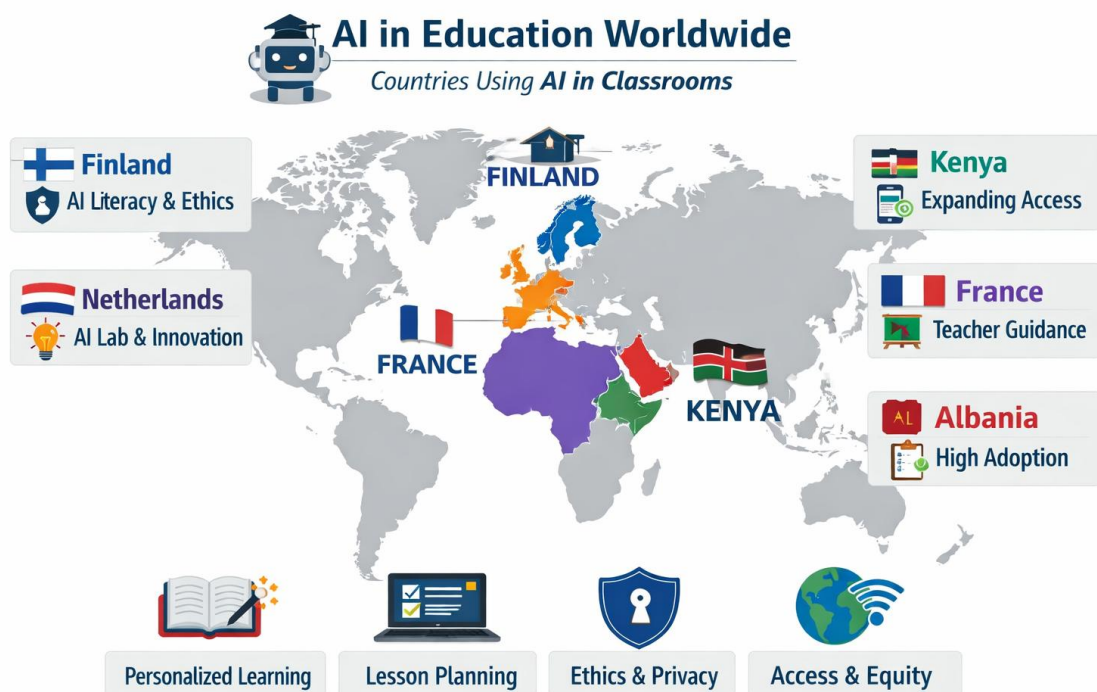
Although so many teachers fear that they may lose their jobs because of AI, researchers have come to the point that AI will not fully replace human teachers instead they assist to organize interesting classes, reduce busy work and boost efficiency,

creating an opportunity to pay more attention to teaching, mentoring and supporting individually. There are certain reasons why AI cannot replace the profession of teachers:

1. Human empathy and emotional support - AI can analyze data easily and can create lesson plans and interactive activities, however it cannot directly understand students` emotions. Teachers can give face-to-face comfort, motivation that cannot be replaced by AI.
2. Role modules and mentors.
3. Students tend to look up to their teachers as a role model and great life example. AI lacks real lived life experience, human character, and resilience.
4. Ethical and moral behaviors.

Education does not only mean knowledge, classroom, lessons, and homework, but also it refers to social values. Students can develop their communication, responsibility, integrity, and kindness with the help and demand of human teachers.

Here are some countries which have started using AI in classroom conditions as an assistant for a teacher.



## Results

The findings of this thesis show that Artificial Intelligence plays an important role in education as a supportive assistant, not a rival. AI helps teachers to pay more attention to their more significant tasks like mentoring, meaningful teaching, and student engagement, rather than spending too much time on grading, lesson planning, and other administrative workload. Moreover, students can use AI to simplify difficult

topics, get feedback and speak in a certain language to improve their communicative skills. Nevertheless, it has its own disadvantages which can create some inconveniences such as absence of human emotion and empathy, role modeling and mentorship, ethical and moral guidance.

Thematic analysis reveals that, of course AI is very beneficial to advance efficiency, accessibility and creativity in classroom conditions, but it does not threaten teachers` profession. It is very effective too which can help them to be more attentive to what they are teaching rather than doing extra tasks which can be time-consuming and repetitive.

### **Discussion**

AI promotes education with grading, planning and making interactive activities automatically, providing more time for mentoring, and individual support. Students can get personalized feedback and work on their self-improvement. Precious human feelings such as empathy, kindness, responsibility, understanding, moral guidance and role modeling cannot be replaced by AI. The future of education requires collaboration from both AI and teachers, to keep everything balanced and to enhance the knowledge of students. Technology makes teaching flourish, while human teachers play an integral role in the classroom providing the most important knowledge and emotional and ethical growth of students.

### **Conclusion**

Artificial Intelligence is literally reshaping our traditional education system, by contributing to efficiency, accessibility and creativity. Teachers` heavy administrative workload can be reduced and students can be also given personalized feedback with the help of AI tools. However, AI is not able to replace profession of teachers according to certain reasons like human emotions, empathy, mentorship, and moral guidance. In the future, education may depend on the co-working of AI and teachers due to technological developments in every field.

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