

# The Role of Artificial Intelligence in Education

## Introduction

Technology has changed almost every part of our lives, and school is no exception. A few years ago, most students only used books, notebooks and blackboards. Today, many of us also use phones, laptops, online videos and learning apps. One of the newest and most talked about technologies in this space is Artificial Intelligence, or AI.

Artificial Intelligence means computer programs that can do tasks that normally need human thinking, such as understanding language, recognising patterns, answering questions and learning from examples. When we use a voice assistant, get video suggestions or translate a sentence on our phone, we are already using AI. In this essay, I will explain how AI is being used in education, how it can help students and teachers, and what problems we must be careful about.

## What Is AI in Education?

AI in education means using smart computer tools to help with teaching and learning. These tools can check answers, explain topics, suggest practice questions, and even help teachers plan lessons. Some of them work like a patient tutor that is available at any time of the day.

It is important to remember that AI is a tool and not a

magic solution. It cannot replace the effort a student must put in, but it can make that effort smarter and more useful. Like a calculator or a dictionary, it is helpful when used in the right way and for the right purpose.

## AI in the Classroom

AI is slowly finding its way into classrooms around the world. Many schools use digital boards and learning platforms that can show videos, animations and quizzes. Some of these platforms use AI to check how well students are doing and to decide what to show next.

For example, a student who is learning about the water cycle can watch an animated lesson and then take a short quiz. If the student makes mistakes, the program can explain the topic again in a simpler way. AI can also read out text for students who find reading difficult, and it can translate lessons into different languages. This helps students who speak a different language at home to understand the lesson better.

Another useful way AI helps in the classroom is by saving time. Tools can mark multiple-choice tests in seconds, take attendance and keep records of marks. This gives teachers more time to focus on what really matters, which is teaching and helping students.

## Personalized Learning

Every student learns in a different way and at a different speed. In a normal class of forty students, a teacher cannot always give each child separate attention. Some students understand a topic quickly and get bored, while others need more time and feel left behind.

AI can help solve this problem through personalized learning. An AI-based learning app can notice which topics a student finds easy and which ones are hard. It then gives more practice on the weak areas and moves faster through the strong ones. For instance, if I am good at geometry but weak in algebra, the app can give me more algebra questions and explain the steps slowly.

Personalized learning can also build confidence. When a student gets questions at the right level, neither too easy nor too hard, learning becomes more enjoyable. Students can also study at their own pace and repeat a lesson as many times as they want without feeling shy or afraid of being judged.

## Teachers and AI

Some people worry that AI will replace teachers one day. I do not think this will happen. A teacher does much more than give information. Teachers inspire us, understand our feelings, notice when we are upset, and teach us values such as honesty, respect and teamwork. A computer program cannot truly do these things.

Instead, AI can become a helpful partner for teachers. It can prepare practice worksheets, suggest ideas for lessons and show which students need extra help. A teacher who gets a report showing that half the class struggled with fractions can plan another lesson on that topic right away. In this way, AI supports teachers, and teachers guide how AI is used.

Teachers also have an important role in showing students how to use AI properly. They can explain when it is fine to take help from AI and when it becomes cheating. Good guidance from teachers will help students use technology wisely.

## Benefits of AI in Education

There are many benefits of using AI in education. First, it gives learning support at any time. If a student has a doubt late in the evening, an AI tool can explain it immediately instead of the student waiting until the next day.

Second, it makes learning more interesting. Games, quizzes, animations and interactive lessons can make difficult subjects like science and maths more fun. Third, it helps students with special needs. Tools that convert speech to text or text to speech can help students with hearing, vision or reading difficulties take part in lessons equally.

Fourth, AI can bring good education to faraway places. A student in a small village may not have access to a very good teacher, but with the internet and AI-based tools, they can still learn from quality lessons. This can reduce the gap between

students in cities and in villages. Finally, AI saves time for both teachers and students by doing routine work quickly.

## AI Tools Students Use Today

Many students already use AI without realising it. Language apps use AI to correct our pronunciation. Maths apps can show step-by-step solutions. Search engines and chatbots can explain a difficult idea in simple words, and some tools can summarise a long chapter so that it is easier to revise.

These tools are useful, but they work best when we stay in control. For example, if a chatbot explains photosynthesis, I should read the explanation, try to say it in my own words, and then check it against my textbook. This way, the AI helps me understand instead of doing the thinking for me.

## Challenges and Concerns

Even though AI has many advantages, it also brings some problems. The biggest worry is that students may depend on it too much. If a student asks an AI tool to write every essay or solve every sum, they will not learn to think for themselves. Copying answers from AI is a form of cheating, and it harms the student most of all.

Another concern is that AI tools are not always correct. They can sometimes give wrong information in a very confident way. Students should always check important facts from textbooks or trusted sources and should not believe everything an

AI says.

Privacy is also an issue. Many apps collect information about students, such as their names, marks and learning habits. This data must be kept safe and should not be misused. There is also the problem of the digital divide. Not every student has a smartphone, a computer or a good internet connection, so AI could leave some children even further behind if schools and governments do not provide equal access.

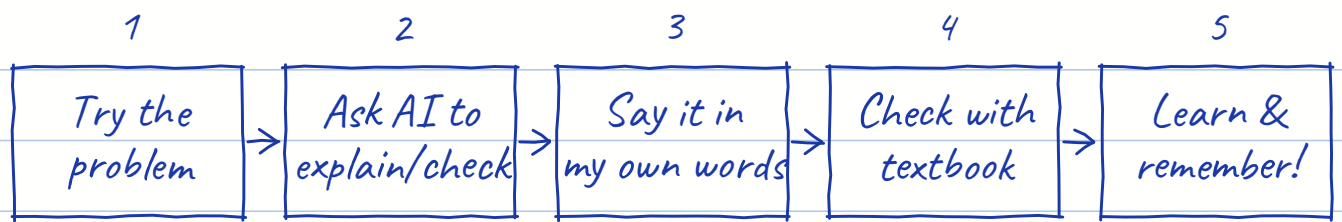
Finally, too much screen time can affect our eyes, sleep and social skills. Students still need to play outside, talk to friends and learn from real experiences. Balance is very important.

### How Students Can Use AI Wisely

To get the best out of AI, students need to follow a few simple rules. We should use AI to understand a topic, not to avoid doing our work. It is a good idea to first try a problem on our own and then use AI to check or explain it. We should write assignments in our own words and always be honest with our teachers. We should also remember that AI can make mistakes, so we should double-check what it tells us.

If we follow these habits, AI can become a strong helper that supports our hard work instead of replacing it.

Fig. 1: Using AI wisely - my study routine



AI = helper, not a shortcut!

## Conclusion

In conclusion, Artificial Intelligence is playing a growing role in education. It can personalize learning, support teachers, help students with special needs and make education available to more people. At the same time, it has real challenges, such as overdependence, wrong information, privacy risks and unequal access to technology.

The future of education will not be about machines replacing humans. It will be about humans and machines working together. If students, teachers and schools use AI carefully and honestly, it can make learning better for everyone. As a student, I believe that the best way forward is to stay curious, keep thinking for ourselves and use AI as a tool that helps us learn more, not as a shortcut that helps us learn less.