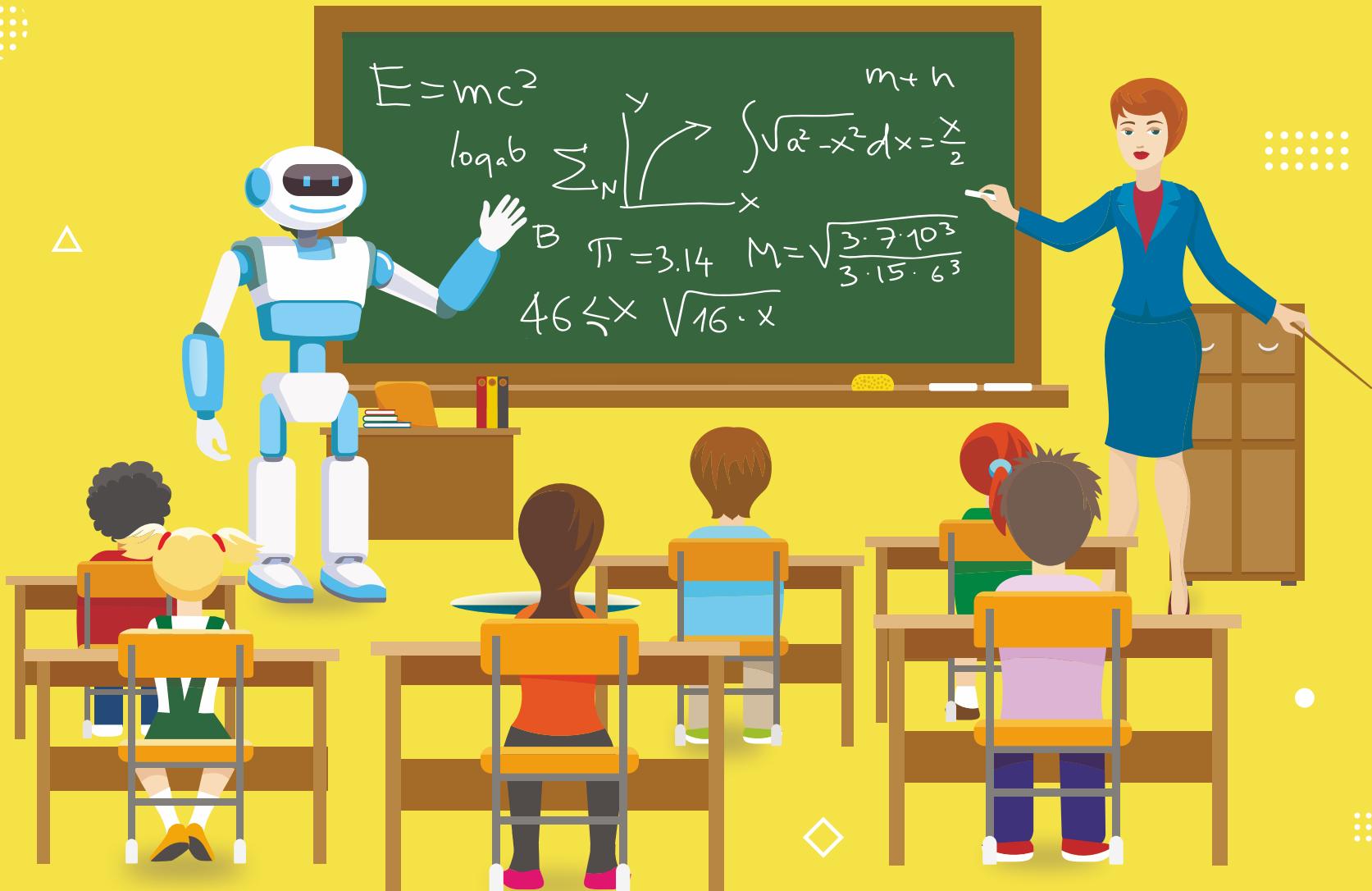


EDUCATION IN THE AGE OF ARTIFICIAL INTELLIGENCE

A Win-Win Situation for Educators & Students





ARTIFICIAL INTELLIGENCE (AI)

Artificial Intelligence is the ability to process the data which is received, recognize patterns (of behaviour) and complete specific tasks with minimal human intervention.

Popular examples include Self-Driving Cars, Sophia: The Humanoid Robot, Amazon Alexa, Google Home, Facebook's Facial Recognition Tool, Movie Recommendations on Netflix, Boxever - a personalisation platform in the travel industry that delivers delightful experiences to the customers along the way and virtual assistants that perform tasks by voice commands which include Siri, OK Google and Cortana.



GOAL

The goal is to incorporate interactive, intelligent environment in the classroom that will provide insights of individual student's learning needs to the educators and to enable educators to enhance students' soft skills that will help them thrive in the future workplace.



BENEFITS

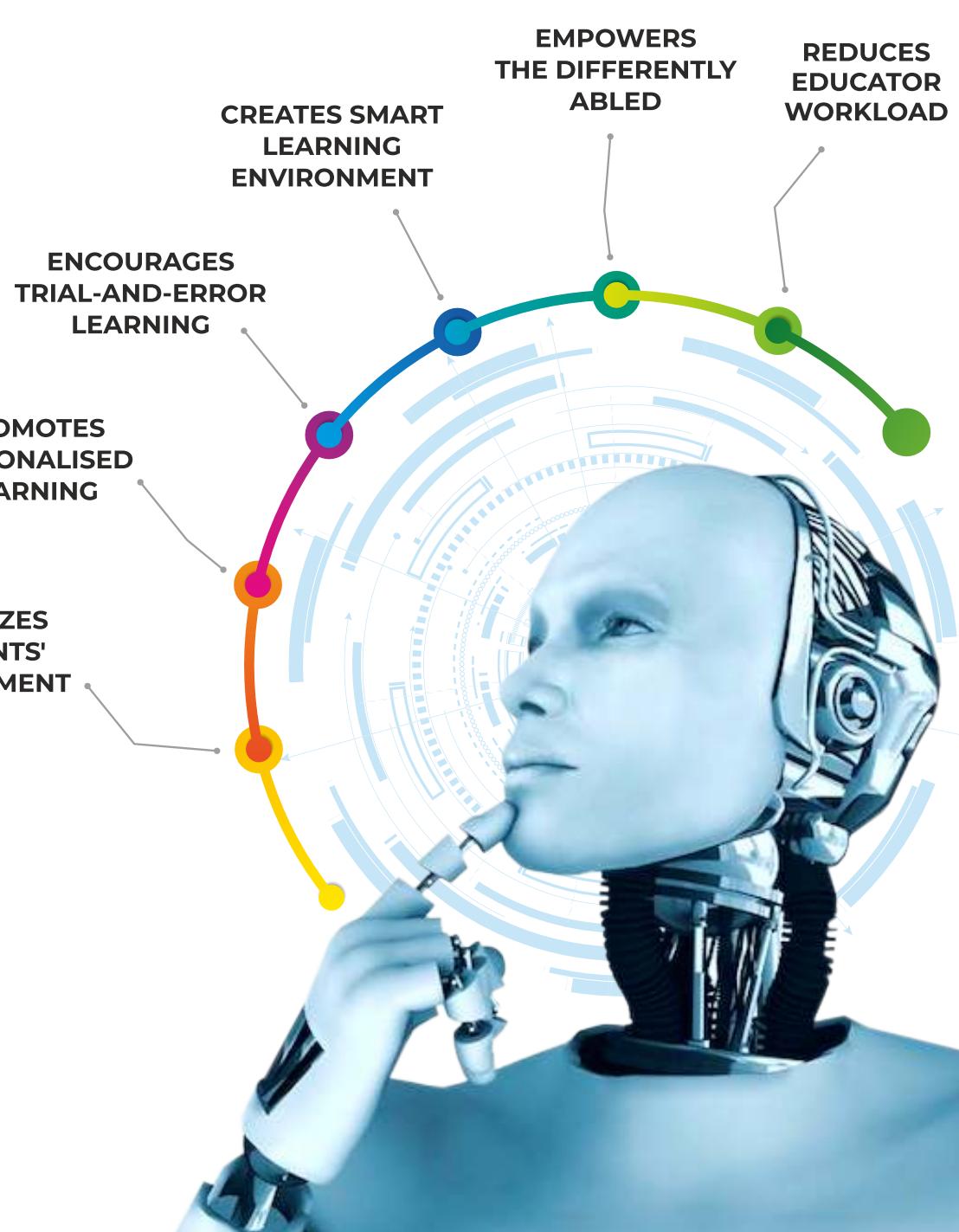
Integration of AI in schools will automate the admin tasks and provide educators more time to understand each student's learning style. The educator will be able to focus on individual students which will help in building a good rapport between the educator and students. With no fear of being judged, students will enjoy the freedom to experiment and learn in a supportive environment. They will get the clarity of complex concepts with the help of examples and real-time problem-solving assessment which will facilitate lifelong learning.



ARTIFICIAL INTELLIGENCE (AI) IN EDUCATION

Educational institutions are using AI robots and AI-based online learning tools to revamp the current classrooms. For instance, Japan is planning to deploy AI robots to improve English speaking skills in schools.

AI-based online learning tools process the individual student's data, track every interaction, understand the pattern, identify knowledge gaps based on the assessments and accordingly customise content based on his/her abilities. These tools also provide dashboards which include a Student's Weekly Progress Report, Student's Completed Worksheet and Teacher's Activity.



HOW ARTIFICIAL INTELLIGENCE WILL TRANSFORM THE CLASSROOM



PERSONALISED LEARNING

Educational institutions will have to deploy an online learning tool/program. Each student and educator will get their individual login credentials to access the curriculum. As the student logins and learns the content, he/she will be tested and assessed at every stage of the learning. Based on his/her data and performance, AI will understand the pattern, identify knowledge gaps and create the most appropriate content according to the student's individual capabilities and needs.



AUTOMATION IN GRADING



The online learning program will eliminate the wastage of effort and time spent on grading by the educators. These programs will provide real-time assessment of the students on the parameters of his/her skills and expertise. Based on the evaluation, educators can identify individual students' strengths and guide them to perform better.



LEARN BY EXAMPLES



In the classroom, students are often uncomfortable to ask questions, if they don't understand a concept. The online program will be a solution to this problem as it provides excellent examples to the students for better understanding. Live examples will make learning more interesting as they give context to the content. All the doubts of the students will get cleared then and there; understanding of the topic will get stored in long-term memory.

DIFFERENT MODES OF LEARNING

The online program is equipped with different modes of learning. For instance, if a student understands a topic better by watching videos, he/she will choose video as a mode of learning. By selecting a method that best suits his/her learning style, the student will understand the concepts faster. It will keep the student motivated to further explore different topics on the subject.



EDUCATORS WILL BECOME FACILITATORS

AI will automate learning activities and grading in schools. Educators will be able to utilise this time to focus on individual students which will facilitate them to excel in their area of expertise. They will be able to help students develop soft skills which include interpersonal skills, creativity, communication, collaboration, problem-solving, adaptability, empathy and leadership skills. These skills will empower students to succeed in academics, career & life.





ANYTIME LEARNING

Students will benefit from a flexible learning environment. They will be able to study anytime, anywhere. When in doubt, they will not have to wait for the next day to resolve their query regarding a topic. They will login to the program, go through the topic and get their doubts cleared on the spot.

EDUCATORS WILL BE ABLE TO ADD THEIR CONTENT

Using their login credentials, educators will be able to check individual students' learning progress, the areas where they are struggling and take necessary action to improve their performance. For instance, when an educator feels that most of the students are finding it difficult to understand a topic, he/she will create own content and upload it to the online program. Then, the educator will select the list of specific students and assign the content to them, which will give them clarity about the topic.

TRIAL-AND-ERROR LEARNING

At the end of every topic, the student will be asked to answer certain questions. If he/she answers it correctly, the next topic will appear on the screen. If the answer is incorrect, the student will have to move between the learning materials, relearn and then answer the question. This process will keep repeating until the student understands the topic well and answers the question correctly. It will encourage Trial-and-Error Learning and help the students to overcome their fear of failure.

REAL-TIME ASSESSMENT & DASHBOARD

The popular phrase 'A Stitch in Time Saves Nine' is applicable to the online learning program. The real-time assessments and dashboards will provide learner analytics of individual students. It will help the educator to make timely, targeted intervention and coach the students who need improvement, before it's too late.

AI ROBOT WILL TEACH A NEW LANGUAGE

Children pick up a foreign language faster than adults. Schools can deploy AI Robots that are programmed to teach multiple languages to students. A robot is patient, it can adapt to the level of the student and interact with them one-on-one. It will help students to learn a new language in an interactive, playful and novel way.

CONCLUSION

AI will reinvent the learning ecosystem. The student-centred approach coupled with smart content delivery and real-time assessment will close the gaps of learning and boost students' confidence. Learning at their own pace (with no stress) will enhance students' happiness quotient. It will make them tech-savvy, a requisite for the job of the future. The combined power of educators and AI will bring out the best in the students and make them globally competitive.

MindBox is an initiative in the Creative Education Field with an aim to develop and expand the Creative and Life Skills of students by conducting diverse STEAM based programs in Schools.

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