KNOWLEDGE AND AWARENESS MAPPING PLATFORM

KNOWLEDGE SESSION 2022: EPISODE 20

ORGANISED BY: KNOWLEDGE AND AWARENESS MAPPING PLATFORM

Date: 16th February 2023

Organized For: Teachers

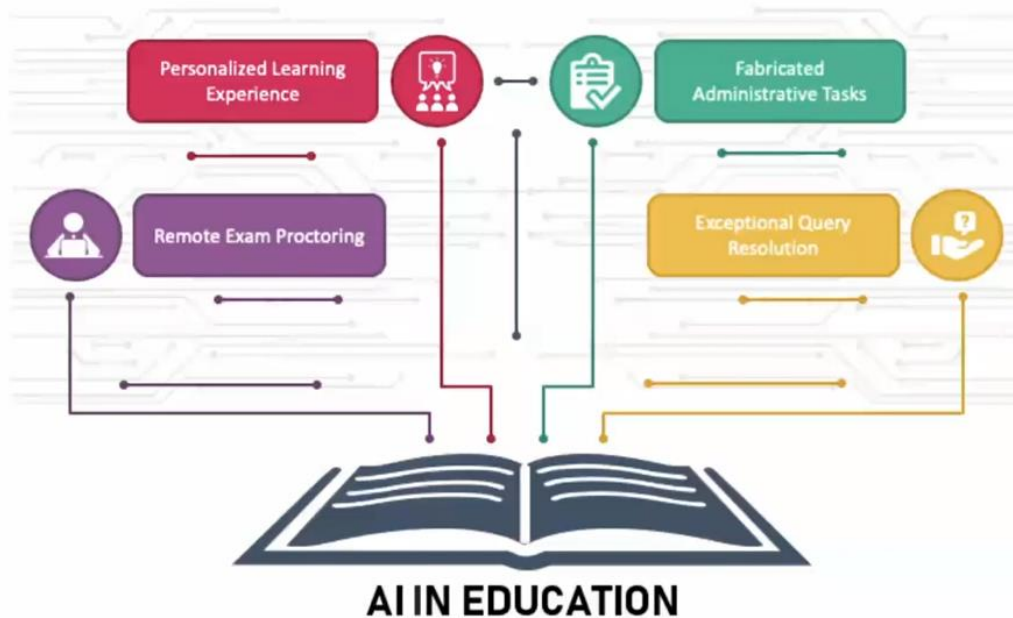**Topic:** The Role of AI in the Future of Education

Category: Technology & Innovations

No. of Participants: 500+ students from different schools across India

Speakers/Presenters: Mr Sumit Singh (Founder of Fairvi)

Overview:

On February 16th, KAMP conducted its 20th Special Knowledge Sharing Workshop on "The Role of Artificial Intelligence in the Future of Education" with 500+ teachers from different schools across India. The main aim of this workshop was to help students understand what Artificial Intelligence is, and its role in the future of education.
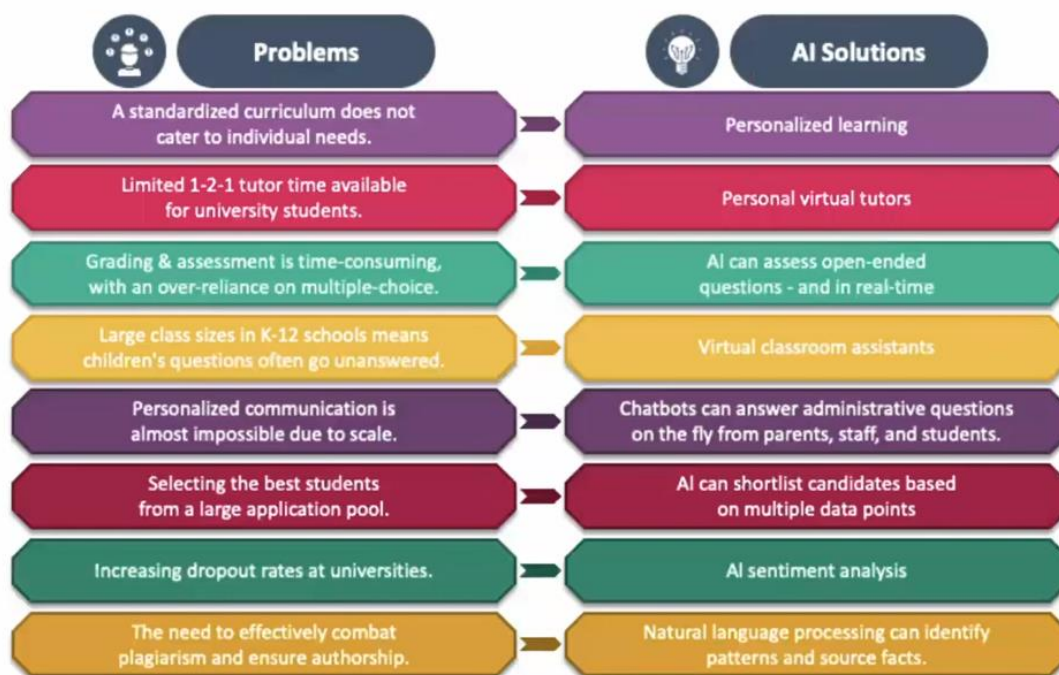

The session was convened by Ms Arika Mathur, a KAMP Planning & Monitoring Committee member and was facilitated by Mr Sumit Singh (Founder of Fairvi).

As generations of children grow up with technology at their fingertips, we live in a world where the internet is their primary source of information, education, and entertainment. Artificial Intelligence has great potential to transform education, It can help students with learning difficulties and support teachers through individualised learning. As technology and society continue to evolve and develop, the way we learn will also continue to change, for children. you'll gain an

understanding of AI and learn how it can be best implemented in your workplace. Expand your knowledge in this disruptive and transformative industry, and use AI to advance your business.

In this workshop, Mr Sumit described AI by referring to the development of computer systems, performing tasks that typically require human intelligence, such as visual perception, speech recognition, decision-making, and natural language processing. Machine learning is a specific subset of AI that focuses on the development of algorithms that can learn from data, recognize patterns, and make predictions or decisions without being explicitly programmed to do so.

Now, coming to the role of Artificial Intelligence (AI) in the future of education can be observed as significant. AI can be used to personalize learning, supplement resources for teachers, automate administrative tasks, and help with assessment, among many other uses. Additionally, AI can help create virtual learning experiences and provide insights into student performance. Looking to the future, AI has the potential to revolutionize the way we learn, providing immersive and engaging learning experiences, which could help improve overall student achievement and reduce inequality in access to education.

Problems	AI Solutions
A standardized curriculum does not cater to individual needs.	Personalized learning
Limited 1-2-1 tutor time available for university students.	Personal virtual tutors
Grading & assessment is time-consuming, with an over-reliance on multiple-choice.	AI can assess open-ended questions - and in real-time
Large class sizes in K-12 schools means children's questions often go unanswered.	Virtual classroom assistants
Personalized communication is almost impossible due to scale.	Chatbots can answer administrative questions on the fly from parents, staff, and students.
Selecting the best students from a large application pool.	AI can shortlist candidates based on multiple data points
Increasing dropout rates at universities.	AI sentiment analysis
The need to effectively combat plagiarism and ensure authorship.	Natural language processing can identify patterns and source facts.

It is rapidly becoming an essential tool in teaching and learning and the future of education. We can easily automate mundane tasks and provide personalized instruction to students or assess their progress and identify areas in which they need more help. In the future, AI may be used to create tailored learning experiences for students and to adapt instruction to their individual needs. AI can also be used to create adaptive tests and provide real-time feedback to students.

We can also use AI to analyze large data sets, such as student performance data, and provide insights into teaching and learning. It can also be used to provide personalized instruction to

students and provide feedback and assessment of student performance. In the future, AI may revolutionize education by making it more accessible and personalized.

Course Improvement

Teachers may not always be aware of gaps in their lectures and educational materials that can leave students confused about certain concepts. Artificial intelligence offers a way to solve that problem.
Coursera, a massive open online course provider, is already putting this into practice. When a large number of students are found to submit the wrong answer to a homework assignment, the system alerts the teacher and gives future students a customized message that offers hints to the correct answer.

Mr Sumit provided students with simple tools and techniques that will help them to obtain the answer to any of their doubts, be they personal or academic. The students do not have to wait for their teachers or parents to answer their doubts. As we know, children are full of curiosity, and such tools ad techniques will help them seek the answers on their own, enhancing their scientific temperament and becoming self-reliant.

The purpose of KAMP's Fortnightly workshops is to help students develop creativity, meaningful learning, and critical reading and thinking skills that bring out their inherent abilities. The vision of KAMP is to identify and capture Scientific and Technological temperament in students to make India – a Global Leader in the field of Science, Technology and Humanities.
Such workshops, conducted by KAMP deal with various topics that fall under the category of Science, Technology and Innovations, Scientific and Life Skills, Career & Professional Development, Academic Development and training the trainers/teachers.

KAMP believes that with exposure to such topics from experts within such specific fields, students will become aware of real-life situations and challenges, develop a helping, problem-solving nature wherever possible, understand their core values and personal interests, evaluate their skills within the given area and achieve their best in their most desirable way.

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 Knowledge and Awareness Mapping Platform
(KAMP Operations and Coordination Office)

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