KNOWLEDGE AND AWARENESS MAPPING PLATFORM
KNOWLEDGE SESSION 2022: EPISODE 16

ORGANISED BY: KNOWLEDGE AND AWARENESS MAPPING PLATFORM

A KNOWLEDGE ALLIANCE OF

Date: 08th December 2022   **Topic:** Coding, Robotics & AI
Organised For: Class 5th – 12th   **Category:** Technology and Innovations

No. of Participants: 2700+ students from different schools across India

Speaker/Presenter: Mr Anurag Tiwari (Engineer, Innovator, Educator)

Overview:

On December 8th, KAMP conducted its 16th Special Workshop on "Learn to Build Your Own Artificial Intelligence Model" with 2700+ students from 5th to 12th standard from different schools across India as participants.

KAMP aims to help students become productive and successful citizens by inculcating scientific temperament within them. As we know, students are curious and like to explore and experiment with how different things work. Machines, language, and AI are the pre-drivers of growth and innovation across industries, and the education sector is no different.

This session was facilitated by Mr. Anurag Tiwari. He is an engineer, innovator, and educator. He has experience delivering more than 300 workshops and training and has trained

more than 10,000 students in his last 8 years of working with RoboSpecies. He specialises in developing STEAM, robotics, and AI-based curriculum for students. He also helped design the RobotriX kits series, which are great starter kits for school students.

RoboSpecies Technologies Pvt. Ltd is founded by "Mr Abhineet Sharma an IIM Alumni". It is a NOIDA-based company working in the fields of coding, robotics, AI, STEM, and STEAM education for the past 10 years. It has a mission to prepare the students to be future-ready for the upcoming challenges of the 21st century.

In today's world AI has been supporting Humankind with several requirements like Security and Surveillance, Navigation, e-commerce, banking and finance sector, autonomous vehicles, smart home, smartphones, social media platforms, etc.

According to the eLearning industry, 47% of learning management tools will be enabled with AI capabilities in the next three years. By streamlining the educational process, providing access to

the appropriate courses, improving communication with teachers, and freeing up time to pursue other interests. Through this workshop, KAMP aims to help the students understand the concepts of robotics, coding, and artificial intelligence.
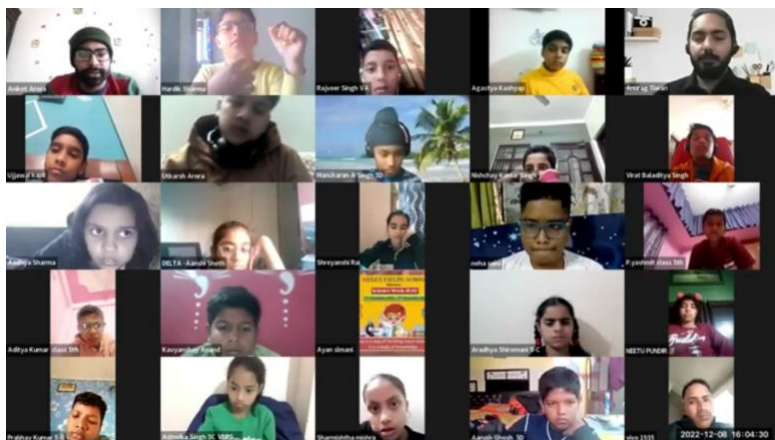
In this workshop, Mr Tiwari helped students understand What is AI, the concept of AI, what is its importance, why we need to learn about AI etc. He mentions that AI is just like Human Intelligence, as it collects, observes and processes all the data in our brains. For example, if you want to train a pet, you have to teach them all the gestures, and even share data in several forms for them to understand the cognitive skills and process them accordingly. Similarly, we need to train machines to recognize images and do a lot of other tasks.

So, for an AI to work, it needs data to calculate and the ability to translate and form a kind of algorithm to work efficiently.

Not only did Mr. Tiwari define these concepts for the students, but he also gave a live demonstration to the students, where he developed an AI model using several tools. He showed them how to train a machine to do different tasks, by creating images through a web camera, and helping the machine with the commands for doing the required action. Such activities would enable students to learn to code, and if they can code on such platforms, they will be able to implement the same concept as computers and be able to build their robots. The purpose of this workshop was to enable students to become future-ready for the upcoming challenges of the 21st century.

KAMP's Fortnightly workshops 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.
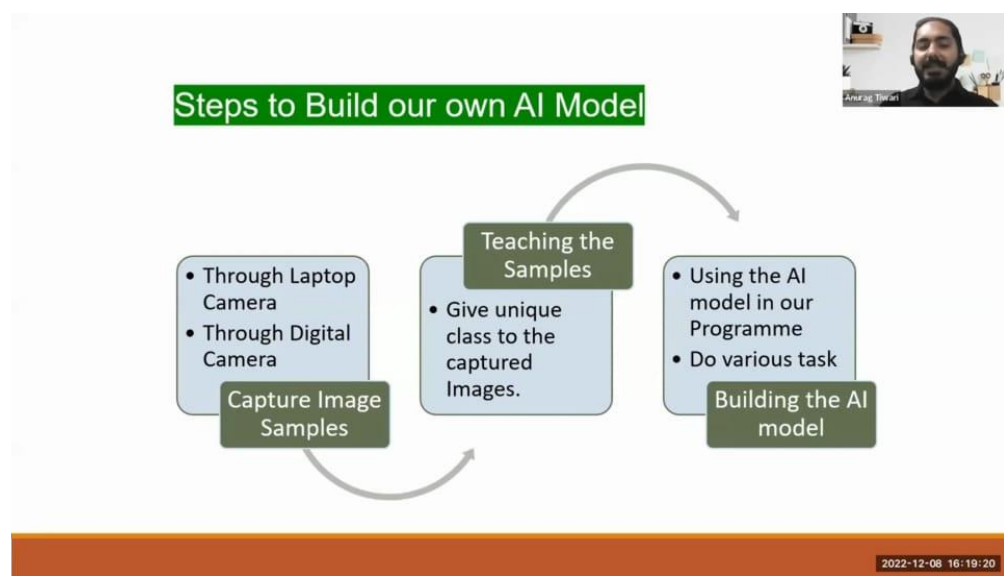
Such workshops, conducted by KAMP deal with various topics that fall under the category of Science, Technology and Innovations, Scientific and Life Skills, Career & Professional Development, Academic Development and training the trainers/teachers.

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.

Organised By:
Knowledge and Awareness Mapping Platform
(KAMP Operations and Coordination Office)

Moderated By:
Ms. Arika Mathur
(Convener KAMP and Member KPMC)

Workshop Partner: RoboSpecies

An ISO 9001:2015 Certified Company

Team Credits:
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