ARTIFICIAL INTELLIGENCE FOR K-12

CODING & MORE   **MONTHLY NEWSLETTER**   **APRIL, 2022**

CODING & MORE

THINK > CREATE > INNOVATE

Coding and More teaches AI and Coding to children in the K-12 grade band.

We believe that today, AI Literacy is as fundamental as language literacy. AI and Machine Learning are being used in varied industries from Business and Art to Law and Health.

We believe that learning should be fun!! When a child links AI to his/her favourite subject or a personal hobby - as educators we know we have ignited the spark.

It is with this thought in mind that we put together this monthly newsletter. In it, we share interesting AI resources as well as international opportunities, with the hope that there is something to kindle every child's curiosity.

**Questions?
Click here to get in touch**

April Spotlight - AI and Climate Action

AI is a tool that is shaped by its creators - humans. As citizens of the world work towards achieving the Sustainable Development Goals envisioned by the United Nations (UN SDGs), it is our responsibility to propel technological developments towards a fairer and better world. Each month we focus on one SDG and try to understand its relevance to AI. This month we have picked UN SDG #13 'Climate Action'.

The world is facing an environmental crisis. As countries, economies and citizens battle to make this goal possible, we try to shed light on how AI can help to make this task more efficient.

We hope it leaves you with some food for thought!

In our monthly live webinars children have the opportunity to interact with AI experts and learn about how the expert uses AI in their profession. Here are talks by experts that use AI for climate action!
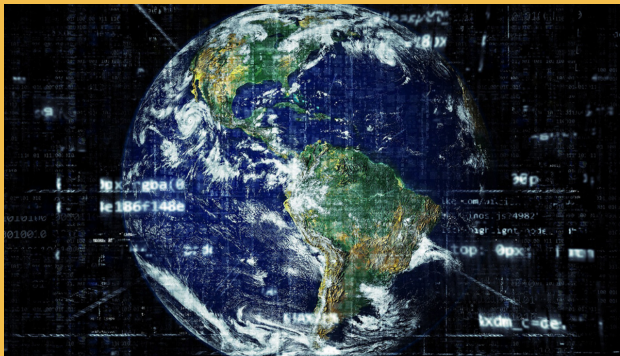
AIStars Competition 2021

Can AI decipher what birds are singing?

▶ Guest Speaker
Dr. Manjari Jain

Associate Professor. Dept. of Biological Sciences

ARTIFICIAL INTELLIGENCE FOR CLIMATE ACTION

Ernitia Paramasari

In this insightful talk Dr. Manjari Jain discusses whether AI can decipher what birds are saying

Listen to Ernitia Paramasari share how she has been using AI to help in climate action

Click Here

Click Here

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AI BYTES #1

This article talks about five startups that are using AI to help save the planet.
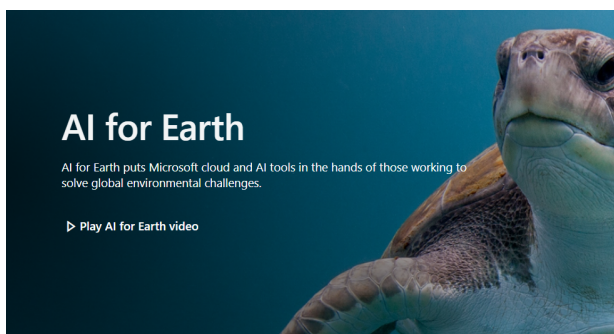
Click Here

AI BYTES #2

This article discusses the pros and cons of using AI to address climate action.

Click Here

AI for Earth

AI for Earth puts Microsoft cloud and AI tools in the hands of those working to solve global environmental challenges.

▶ Play AI for Earth video

AI BYTES #3

Learn about several organisations that are using AI to help solve environmental challenges.
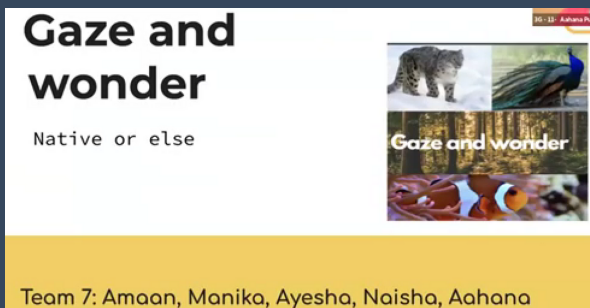
Click Here

AI BYTES #4

Given the huge carbon footprint of technology, is it possible for the very same technology to neutralize its impact?
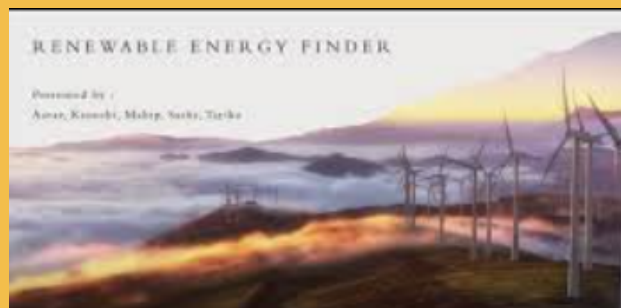
Click Here

STUDENT CREATIONS

Our students have used AI to make some amazing projects in support of climate action.

Gaze and wonder
Native or else
Gaze and wonder

Team 7: Amaan, Manika, Ayesha, Naisha, Aahana

An AI system that classifies animals based on whether they are native or non-native to a region. This can help prevent displacement of animals.

Click Here

RENEWABLE ENERGY FINDER

An AI model that recommends the most optimal
source of renewable energy

Click Here

AGRI ROBO

GROW THE GOLD

An AI model that promotes afforestation by identifying soil type and recommending trees to grow.

Click Here

Plant Picker

By:
Isha , Nainika, Neha, Anushaa, Devaansh

An AI app that recommends plants to make gardening fun and also help the environment

Click Here

Artificial Intelligence Enrichment Summer Programme

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April 25 - May 6 or
May 9 to May 20 or
May 22 to June 3

For 7 to 17 year olds

Monday to Friday
10-11 am for Grade2-4
11-12 am for Grade 5-7
12-1 pm for Grade 8-12

Online classes

CLICK HERE TO REGISTER

**What do self-driving cars, Alexa, YouTube and Netflix have in common?
It's Artificial Intelligence!**

AI Literacy

- **What is AI?**
- **Where is it used?**
- **How AI is used in image recognition, voice detection, text analysis and more**

Students learn the concepts and also make their own AI models

Students learn

- **how the tech they use everyday works**
- **how they can integrate AI into their own passion**
- **how AI can be used to address global challenges**

CLIMATE THOUGHTS
FROM AI STUDENT LEADER NYAH BHAT

A small way you could reduce your water footprint, and do your bit to contribute. The easiest thing you could start with, is cutting down your shower. On an average, we shower for about 8 minutes. And we use 2.1 gallons per minute (almost 8 liters!) of water per shower. If you just shaved off 2 minutes from your shower each day – you would save almost 16 liters of water. In 16 liters, approximately eighty people would have enough drinking water for a day. Think about this number.. eightly homeless people in your city would have a smile on their face, after having enough to drink each day. Additionally, delivering and heating the hot water for your shower uses a huge amount of energy. Letting your faucet run for those 2 extra minutes uses as much energy as letting a 60 watt bulb, run for eight hours. To put that into perspective – your room could stay lit up for almost the whole day.
Think about this, and try to work on it. It is definitely true - one person can make a difference.

TESTIMONIALS

I enjoyed the course and learned a lot from it. The explanation was easy to understand and the homework wasn't too heavy. The best part of the program was working on the projects using all the skills I learnt so far.

Ebrahim Daginawala,
Christ Church School

Click the icons to learn more about AI education for kids