



D&I

Words of Visionaries

Module: Technology Take Over

The ongoing module at Dreamers & Innovators: "Technology Take Over" is a one-of-a-kind effort to bring young learners in contact with the details of the technology-powered world they live in and how it is transforming their futures with each passing day. At D&I we work with Dreamers who will change the world tomorrow!

This week's newsletter showcases the ideas of four of our Dreamers: Saayesha, Arhaan, Gurvir and Ruben, who provide you with valuable insight into how the Internet of Things became possible and how A.I. surrounds us in a myriad of ways.

Dreamers & Innovators is a knowledge and skill-building platform for 21st century learners. We aspire, design and execute interactive learning experiences where global knowledge relevant to today and tomorrow is brought to young Dreamers. At D&I, 21st century skills are honed, confident communication is developed and independent, informed opinions are nourished.

Get on the Good Side of A.I.

Arhaan Gupta
13 years



David Waters once said - "Predicting the future isn't magic, its artificial intelligence." Artificial Intelligence has revolutionized the way we live our lives. From not knowing what machines were to making machines which can interact with humans, we have definitely come a long way!

Artificial Intelligence is everywhere in our lives, from the offices of IT companies to the refrigerators in our homes! We humans possess a power which can help us solve the world's biggest crises which include poverty, hunger and that power is artificial intelligence. For example, artificial intelligence can analyze large amounts of data to locate areas affected by hunger, it can provide a more efficient distribution of food and it can help in the engagement of people through a smartphone. Though AI might have many good qualities which makes people obsessed with it, it can be dangerous too. AI's intelligence level can easily surpass the human brain in another ten years. It is so effective that it can easily replace humans at jobs. Will a day come when robots and machines would be hired rather than humans? Only time will tell. Until then we should hope for the best!

Making Internet of Things Real

Saayesha Chandrani
14 years



The Internet of Things is no longer a new kid on the block and has paved a journey so eventful and so successful since its invention, that it now ranks among the top business growth drivers. A machine-machine interaction is referred to as IoT or the Internet of Things. Kevin Ashton used RFID technology in 1999, but it wasn't until the 21st century that the technology truly developed. As the Internet of Things continues to develop, some factors that have made it a reality now include internet connectivity, IP addresses, bulk data collection and processing, and graphical user interface technology.

The latest version of IP address technology- IPv6 gives every user device on the internet an ID and has a larger capacity. RFID makes it possible for machines or computers to identify objects and record data through radio waves. GUI enables us to interact with a device with ease. These technologies make the Internet of Things possible. IoT, too, evolved gradually over time, with many parallel experiments being conducted, much like the famous quote "Rome was not built in a day".

A.I. : Behind the Scenes

Gurvir Vohra
14 years



There are so many amazing ways artificial intelligence and machine learning are used behind the scenes to impact our everyday lives. AI assists in every area of our lives, whether we're trying to read our emails, get driving directions, get music or movie recommendations.

Here are some examples how artificial intelligence is used in day-to-day activities such as: Web Searching: Google search engines evolved over time by studying the linguistics used in searches. Its AI learns from results and adapts over time to better meet the needs of users. For example, a search of "Recipe of a mango kulfi" offers Google's choice of "best answer" highlighted at the top, followed by a list of sources that answer the question.

Email Preferences: Google uses AI to ensure that nearly all of the email landing in your inbox is genuine. Their filters attempt to sort emails into the following categories: Primary, Social, Promotions and Spam.

These are just a few examples. In conclusion AI is beyond belief and evolving day to day. I just hope that it will always be for the better of mankind and not go to the stage feared by most humans.

How IoT Came to Be

Ruben Sharma
12 years



The phrase 'Internet of Things', or IoT for short, was coined by Kevin Ashton in 1999 to describe a device that is embedded with sensors, actuators, processing ability, software, and other technologies that connect and exchange data with other devices over the Cloud.

While the idea of IoT has been in existence for a long time, a collection of recent advances in a number of different technologies has made it practical.

Ashton used the RFID (Radio Frequency Identification) technology to create a machine to machine connection by starting a research consortium called the Auto-ID center. The Internet of Things was made possible due to the RFID technology, cloud connectivity and IP address, graphical user interface technology, and affordable, low-power equipment such as sensors and actuators. IoT is being tried across industries to solve real problems.

However, I think that human ingenuity was the main ingredient in this technological recipe. I also believe that this advanced technology is what will help AI reach across the world.